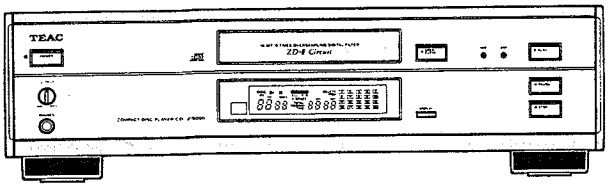
TEAC®



SERVICE MANUAL

CD-Z5000/CD-P4000

Compact Disc Player

COMPACT disc DIGITAL AUDIO

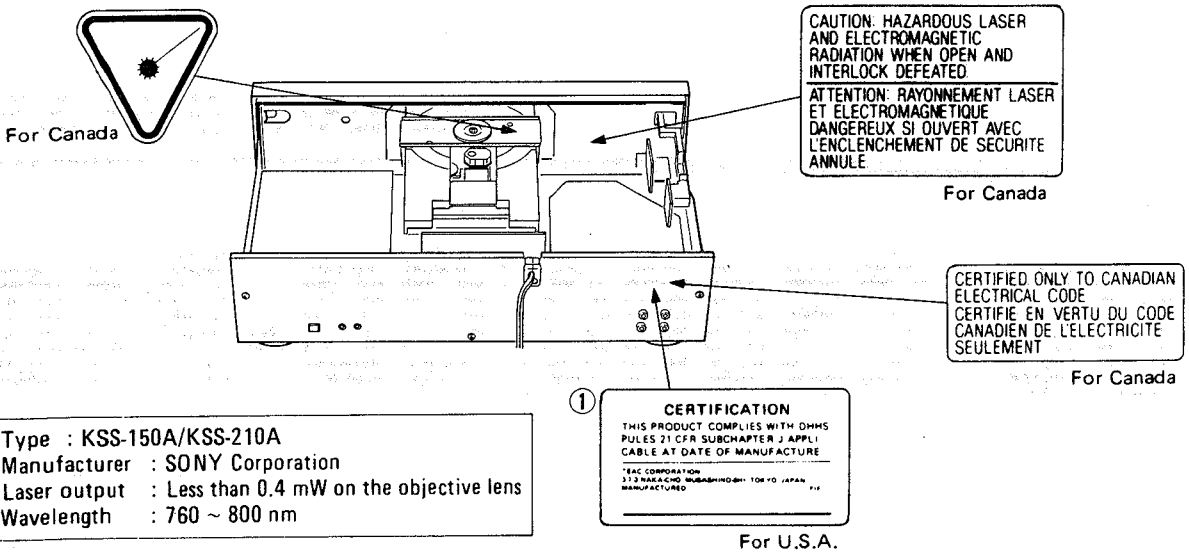
Effective : December, 1990 S00071

5704052400

1 SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.
The label required in this regulation is shown ①.

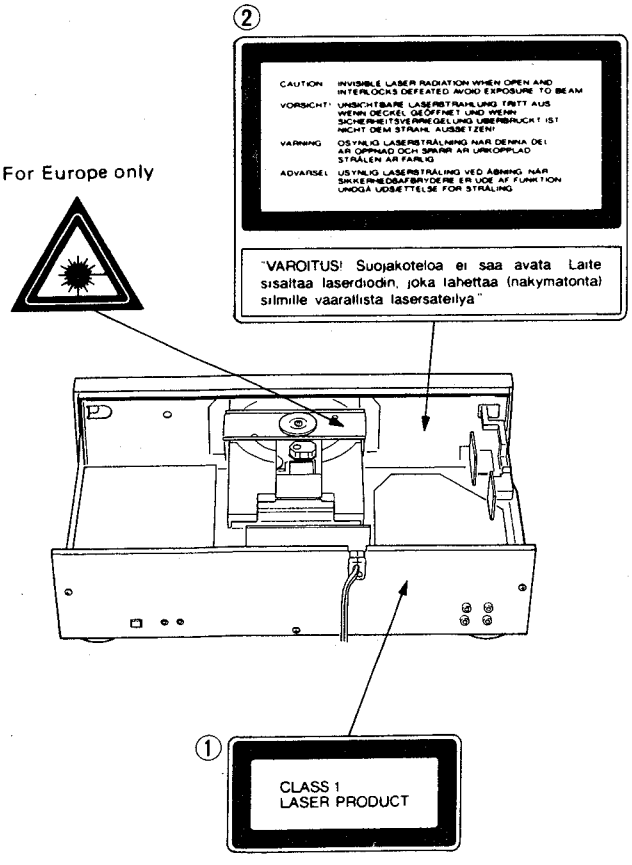
- **CAUTION**
- DO NOT REMOVE THE PROTECTIVE HOUSINGS USING SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, MAKE A CONTACT WITH OUR SERVICEMAN, AND DO NOT USE THE PRODUCT IN A TROUBLED STATE.


For Canada
CAUTION: HAZARDOUS LASER AND ELECTROMAGNETIC RADIATION WHEN OPEN AND INTERLOCK DEFEATED.
ATTENTION: RAYONNEMENT LASER ET ELECTROMAGNETIQUE DANGEREUX SI OUVERT AVEC L'ENCLENCHEMENT DE SECURITE ANNULE.
For Canada
CERTIFIED ONLY TO CANADIAN ELECTRICAL CODE
CERTIFIE EN VERTU DU CODE CANADIEN DE L'ELECTRICITE SEULEMENT
For Canada
①
CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLI CABLE AT DATE OF MANUFACTURE
For U.S.A.

Optical pickup: Type : KSS-150A/KSS-210A
Manufacturer : SONY Corporation
Laser output : Less than 0.4 mW on the objective lens
Wavelength : 760 ~ 800 nm

•CAUTION •ACHTUNG •OBSERVERA •ADVARSEL

For Europe only



① THIS LABEL IS ATTACHED TO THE PLACE AS ILLUSTRATED TO INFORM THAT THE APPARATUS CONTAINS A LASER COMPONENT.

① DIESE AUFKLEBEMARKE IST AN DEM IN DER ABBILDUNG GEZEIGTEN ORT ANGEBRACHT UM DARAUF HINZUWEISEN, DASS IM INNERN DES GERÄTS EINE LASER-KOMPONENTE BEFINDET.

① PÅSKRIFTEN SITTER PÅ APPARATEN SOM VISAS SOM UPPMANING OM ATT APPARATEN OMFATTAR EN INBYGGD LASERKOMPONENT.

① DETTE MÆRKAT ER ANBRAGT SOM VIST I ILLUSTRATIONEN FOR AT ADVARE BRUGEREN OM AT APPARATET INDEHOLDER EN LASERKOMPONENT.

② DETTE MÆRKAT ER SOM VIST PÅ ILLUSTRATIONEN ANBRAGT PÅ INDERSIDEN AF TOPDÆKSLET FOR AT ADVARE BRUGEREN OM AT YDERLIGERE FREMTRÆNGEN VIL VÆRE FORBUNDET MED FARE FOR AT UDSÆTTE SIG FOR LASERSTRÅLING.

ADVARSEL – BETJENING AF ANDRE KONTROLLER OG REGULATORER ELLER BENYTTELSE AF ANDRE FREMGANGSMÅDER END BESKREVET HERI ER FORBUNDET MED FARE FOR UDSÆTTELSE FOR LASERSTRÅLING.

VARNIG: APPARATEN INNEHÅLLER LASER KOMPONENT MED STRÅLNING ÖVERSTIGANDE KLASS 1

"ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NAR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING"

"VAROITUS! SUOJAKOTELOA EI SAA AVATA. LAITE SISÄLTÄÄ LASERDIODIN. JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ".

2 SPECIFICATIONS
仕 様

[CD-Z5000]

AUDIO

Number of Channels	2
Frequency Response	1 – 20,000Hz ± 0.5dB
Signal to Noise Ratio	Better than 110dB (1kHz)
Dynamic Range	Better than 100dB (1kHz)
Harmonic Distortion	0.002% (1kHz)
Wow and Flutter	Unmeasurable (Quartz accuracy)
Channel Separation	Better than 100dB (1kHz)
Output Analog	Variable : 2.5Vrms Fixed : 2.0Vrms
Digital	-15dBm – -21dBm (Optical)
Headphone	36mW/33Ω

PICK UP

Type	Optical 3-Beam laser pickup
Laser Type	AlGaAs type semiconductor laser
Wave Length	780nm

SIGNAL FORMAT

D/A Converter	16-bit 4 D/A converters + ZD II Circuit
Error Correction	CIRC (Cross Interleave Reed Solomon Code)
Sampling Frequency	44.1kHz
Channel Modulation Code	EFM (Eight to Fourteen Modulation)
Channel Bit Rate	4.3218Mb/sec
Filter	18-bit 8-times oversampling digital filter + 2nd order analog filter

DISC

Type	Compact disc
Playing Time	Approx. 60min/Approx. 20min
Diameter	120mm/80mm
Thickness	1.2mm
Scanning Velocity	1.2 – 1.4m/sec
Track Pitch	1.6 μm

GENERAL

Power Requirements	120/220/240V AC, 50/60Hz (General Export Model) 120V AC, 60Hz (USA/Canada Model) 220V AC, 50Hz (Europe Model) 240V AC, 50Hz (Australia Model)
Power Consumption	17 watts
Dimensions (W × H × D)	435 × 120 × 290mm (17-1/8″ × 4-3/4″ × 11-7/16″)
Weight (net)	6.5kg (14.3 lbs)
Standard Accessories	Wireless Remote Control Unit : RC-388 (TEAC Model) RC-386 (ESOTERIC Model) RCA pin-plug cord, Battery (SUM-3, "AA", "R6" type) × 2

[CD-P4000]

AUDIO

Number of Channels	2
Frequency Response	1 – 20,000Hz ± 0.5dB
Signal to Noise Ratio	Better than 105dB (1kHz)
Dynamic Range	Better than 97dB (1kHz)
Harmonic Distortion	0.002% (1kHz)
Wow and Flutter	Unmeasurable (Quartz accuracy)
Channel Separation	Better than 100dB (1kHz)
Output Analog	2.0Vrms
Digital	-15dBm – -21dBm (Optical)
Headphone	36mW/33Ω

PICK UP

Type	Optical 3-Beam laser pickup
Laser Type	AlGaAs type semiconductor laser
Wave Length	780nm

SIGNAL FORMAT

D/A Converter	3.46-bit 32fs ΔΣ (Delta Sigma) Modulator
Error Correction	CIRC (Cross Interleave Reed Solomon Code)
Sampling Frequency	44.1kHz
Channel Modulation Code	EFM (Eight to Fourteen Modulation)
Channel Bit Rate	4.3218Mb/sec
Filter	18-bit 4-times oversampling digital filter + 3rd order analog filter

DISC

Type	Compact disc
Playing Time	Approx. 60min/Approx. 20min
Diameter	120mm/80mm
Thickness	1.2mm
Scanning Velocity	1.2 – 1.4m/sec
Track Pitch	1.6 μm

GENERAL

Power Requirements	120/220/240V AC, 50/60Hz (General Export Model) 120V AC, 60Hz (USA/Canada Model) 220V AC, 50Hz (Europe Model) 240V AC, 50Hz (Australia Model)
Power Consumption	12 watts
Dimensions (W × H × D)	435 × 120 × 290mm (17-1/8″ × 4-3/4″ × 11-7/16″)
Weight (net)	5.0kg (11.0 lbs)
Standard Accessories	Wireless Remote Control Unit (RC-388), RCA pin-plug cord, Battery (SUM-3, "AA", "R6" type) × 2

● Improvements may result in specification or feature changes without notice.

CD-Z5000/CD-P4000

〔CD-Z5000〕

〈オーディオ〉

オーディオチャンネル数	2チャンネル
周波数特性	1～20,000Hz ± 0.5dB
SN比	110dB以上(1kHz)
ダイナミックレンジ	100dB以上(1kHz)
高調波歪率	0.002％以下(1kHz)
ワウ・フラッター	測定限界値以下(水晶発振精度)
チャンネルセパレーション	100dB以上(1kHz)
アナログ出力(固定)	2.0Vrms
(可変)	2.5Vrms
デジタル出力	－15～－21dBm(OPTICAL)
ヘッドホン出力	36mW(33Ω負荷)

〈ピックアップ〉

方式	対物レンズ駆動、光学式3ビーム
対物レンズ駆動方式	2次元平行駆動
光源	半導体レーザー
波長	780nm

〈信号フォーマット〉

標本化周波数	44.1kHz
量子化ビット数	16ビット・リニア/チャンネル
伝送レート	4.3218Mb/sec
変調方式	EFM
エラー訂正方式	CIRC
D/Aコンバーター	16ビット4DAC＋ZDⅡサーキット
デジタルフィルター	18ビット8倍オーバーサンプリング デジタルフィルター
アナログフィルター	2次アナログフィルター

〈ディスク〉

方式	コンパクトディスク
演奏時間	約60分/約20分
ディスク直径	120mm/80mm
ディスク厚	1.2mm
線速度	1.2～1.4m/sec
トラックピッチ	1.6 μm

〈一般〉

電源	100V AC 50/60Hz
消費電力	17W
外形寸法	435 × 120 × 290mm (W × H × D)
重量	6.5kg

付属品

- ワイヤレスリモコン RC-388 × 1
- ピンプラグコード × 1
- 乾電池(単3, SUM-3) × 2
- 取扱説明書

〔CD-P4000〕

〈オーディオ〉

オーディオチャンネル数	2チャンネル
周波数特性	1～20,000Hz ± 0.5dB
SN比	105dB以上(1kHz)
ダイナミックレンジ	97dB以上(1kHz)
高調波歪率	0.002％以下(1kHz)
ワウ・フラッター	測定限界値以下(水晶発振精度)
チャンネルセパレーション	100dB以上(1kHz)
アナログ出力	2.0Vrms
デジタル出力	－15～－21dBm(OPTICAL)
ヘッドホン出力	36mW(33Ω負荷)

〈ピックアップ〉

方式	対物レンズ駆動、光学式3ビーム
対物レンズ駆動方式	2次元平行駆動
光源	半導体レーザー
波長	780nm

〈信号フォーマット〉

標本化周波数	44.1kHz
量子化ビット数	16ビット・リニア/チャンネル
伝送レート	4.3218Mb/sec
変調方式	EFM
エラー訂正方式	CIRC
D/Aコンバーター	3.46ビット32倍サンプリング デルタシグマモジュレータ
デジタルフィルター	18ビット4倍オーバーサンプリング デジタルフィルター
アナログフィルター	3次アナログフィルター

〈ディスク〉

方式	コンパクトディスク
演奏時間	約60分/約20分
ディスク直径	120mm/80mm
ディスク厚	1.2mm
線速度	1.2～1.4m/sec
トラックピッチ	1.6 μm

〈一般〉

電源	100V AC 50/60Hz
消費電力	11W
外形寸法	435 × 120 × 290mm (W × H × D)
重量	5.0kg

付属品

- ワイヤレスリモコン RC-388 × 1
- ピンプラグコード × 1
- 乾電池(単3, SUM-3) × 2
- 取扱説明書

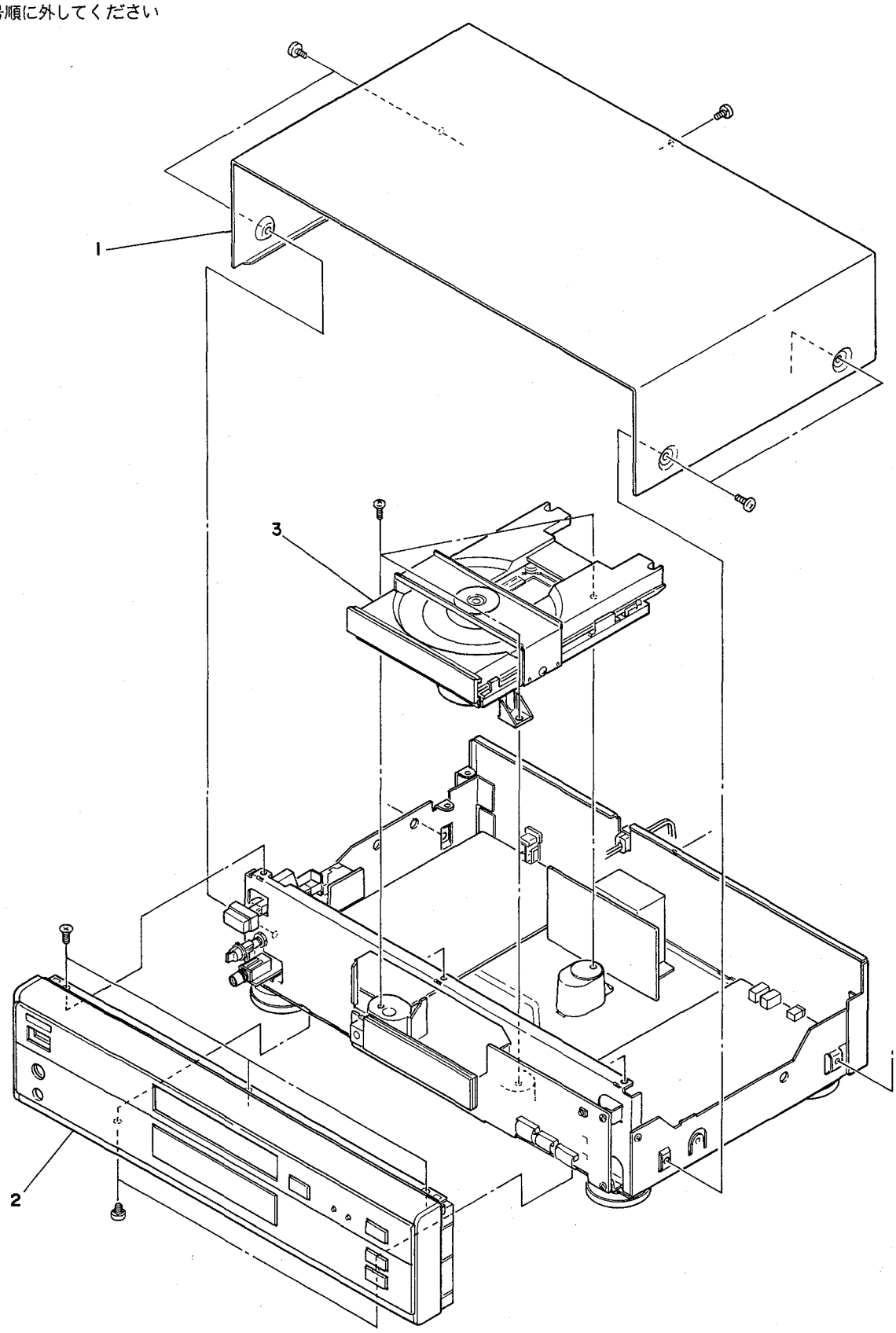
＊仕様および外観は、改善のため予告なく変更することがあります.

3 CASE AND FRONT PANEL REMOVAL

外装部品の外し方

Disassemble in number-order

番号順に外してください



4 ADJUSTMENT AND CHECKS
調整と確認

1. Replacement of the pickup assembly

- Before removing the pickup assembly be sure to solder-bridge where indicated in the inset (Fig. 4-1) to prevent the laser diode from being electrostatically damaged.
  After replacing the pickup assembly, be sure to unsolder the antistatic bridge. Or else the laser diode does not function.
- Before servicing the pickup assembly be sure to prevent electrostatic-inducer destruction by grounding not only test equipment in use but also yourself as shown in Fig. 4-2.
  * Electrostatic charge drastically shortens the operating life of the laser diode or possibly results in its destruction.
- During the transportation, mounting and dismounting of the assembly, support with your fingers at points A and B as shown in Fig. 4-3.
  Be particularly careful not to touch the actuator, photosensor and LD plate and do not apply force to them.
- Soldering must be done quickly at less than 30W, 320℃.
- Don't disassemble the pickup ass'y.
- Don't apply shock to the pickup ass'y.
- Don't place the assembly in a place subject to excessive dust, heat or moisture.

1. ピックアップASSYの交換

- ピックアップASSYを外すときは、レーザーダイオードの静電破壊防止のため、必ず斜線部分(Fig. 4-1)を半田ブリッジしてから作業をしてください。
  また、取り付ける場合も取り付けた後に半田ブリッジを外してください。
  半田ブリッジをしたままではレーザーダイオードは動作しません。
- ピックアップASSYを取り扱う場合は、測定器などに確実なアースを取ると共に、人体アースを行ない、静電破壊を十分防止してください。(Fig. 4-2)
  *レーザーダイオードは、静電気が加わると寿命が著しく低下したり、または破損しますので十分注意してください。
- 取り付け、取り外し、持ち運びの際は、Fig. 4-3のA部とB部で支えてください。特にアクチュエーター、光検出部、LDプレート部は、手を触れたり力を加えたりしないでください。
- 半田ゴテは30W, 320℃以下を使用し、すばやく処理してください。
- ピックアップASSY本体の調整および分解などはしないでください。
- ピックアップASSYに落下・衝撃は加えないでください。
- ゴミ・ホコリなどの発生する場所、高温・多湿の場所は避けてください。

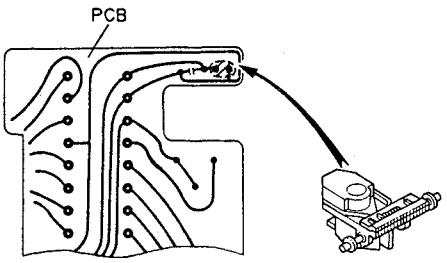


Fig. 4-1

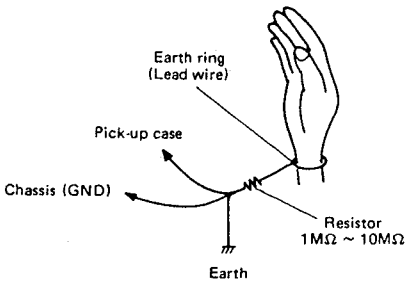


Fig. 4-2

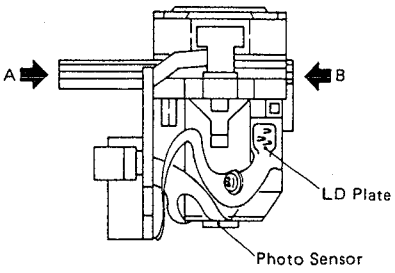


Fig. 4-3

2. Objective

- Laser beams are similar to infrared rays. Don't look at the beams directly and keep your eyes at least 30cm away from them.
- Don't touch the objective with fingers.
- If objective becomes dirty, playback will deteriorate. To clean the objective, moisten a good cleaning tissue, such as made by KODAK, in isopropyl alcohol and wipe the objective gently. Wipe off and excess fluid with a dry cleaning tissue.

2. 対物レンズについて

- レーザー光は近赤外線の為目視は困難です。目の安全の為、目をレンズから30cm以上離してください。
- レンズには手を触れないでください。
- レンズに汚れが付くと再生能力が低下しますので、次のように清掃してください。
  レンズクリーニングペーパー (KODAK社製など) に、イソプロピールアルコール (I.P.A) を浸して清掃をし、液が残らないように必ず拭きとってください。

3. Laser diode check
〔Iop (Intensity Optimum) check〕

Connect a DC voltmeter to both ends of R415 on SERVO PCB. Measure the DC voltage while playing a disc to check that the measured value does not exceed the Iop value indicated on the pickup by 5mA.
(If the measured value is higher than that indicated, the pickup may be damaged.)
* Pay special attention that parts are not damaged by static electricity.

●Iop value calculation method
1) Connection diagram

3. レーザーダイオードの破損チェック
〔Iop (Intensity Optimum) 値確認〕

(ピックアップ交換時には必ず実行のこと)
DCボルトメーターをSERVO PCBのR415の両端に接続する。PLAY中の直流電圧を測定し、下記計算方法によりピックアップに表示してあるIop値より5mA以上増加していないことを確認。
(増加の場合は、破損している可能性がある。)
*静電破壊に十分注意すること。

●Iop値の計算方法
1) 接続図

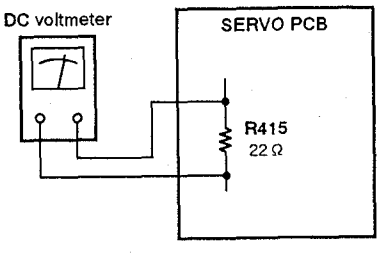
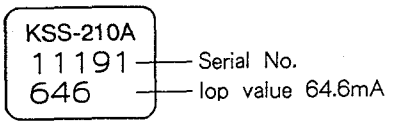


Fig. 4-4

2) How to calculate

$$5\text{mA} > \frac{\text{Voltage of R415}}{22\ \Omega} - \text{Iop value indicated on the pickup}$$

3) How to read numbers on sticker attached to the pickup
(Example)

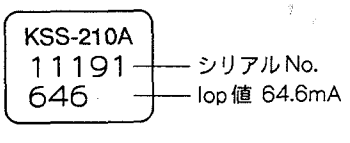


2) 計算方法

$$5\text{mA} > \frac{\text{R415の電圧}}{22\ \Omega} - \text{ピックアップ表示のIop値}$$

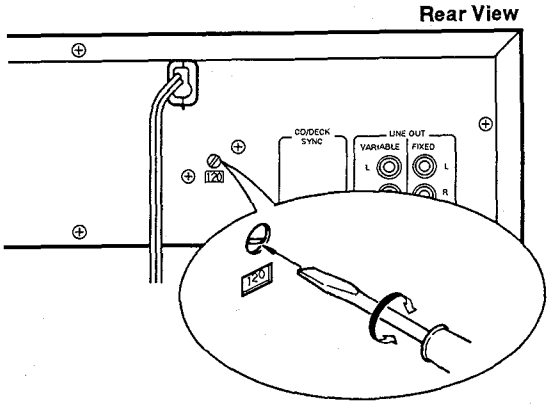
3) ピックアップ添付シールの読み方

(例)



VOLTAGE CONVERSION
(For general export models)

If it is necessary to change the voltage requirements of the player to match your area, use the following procedure :
1. DISCONNECT POWER LINE CORD.
2. Using a screwdriver, turn the selector until the desired voltage marking appears.

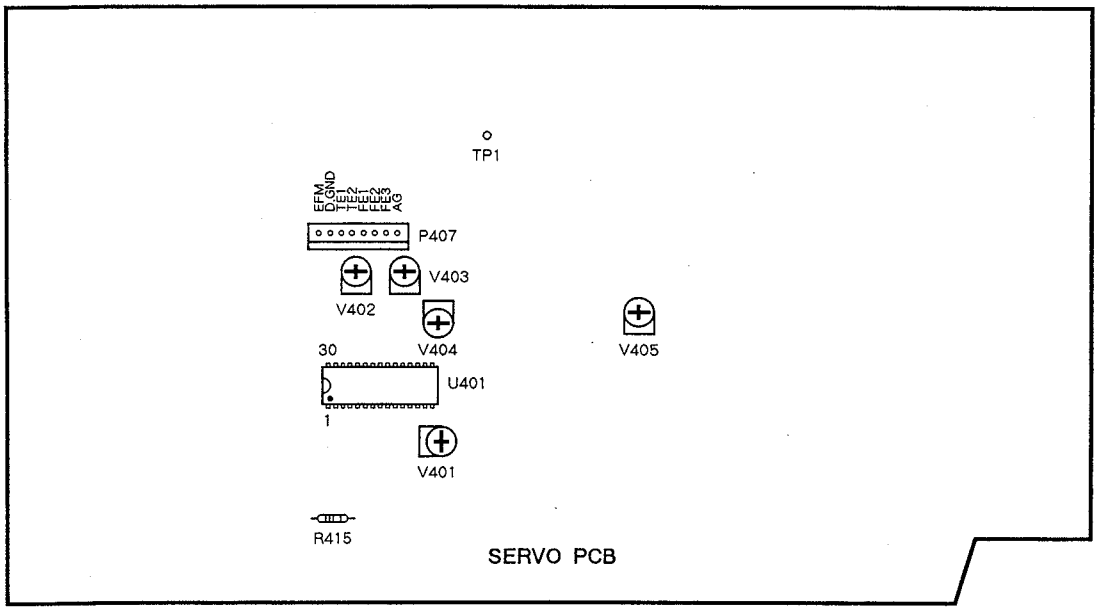


4-1 SERVO ADJUSTMENT

- Grating adjustment cannot be done with this model. When adjustment is necessary, replace the pickup ass'y with a new one.
- Use disc : YEDS-18(or YEDS-7)

4-1 サーボ調整

- 本機は回折格子の調整ができませんので、必要な場合はピックアップAss'yを交換してください。
- 使用ディスク：YEDS-18（又はYEDS-7）



V401	Tracking balance	トラッキングバランス
V402	Tracking gain	トラッキングゲイン
V403	Focus gain	フォーカスゲイン
V404	Focus offset	フォーカスオフセット
V405	PLL frequency	PLL周波数

Fig. 4-5

4-1-1 Checking the pickup actuator operation

Before loading the disc, turn the power ON and check that the pickup actuator moves up and down three times. (If the pickup is not at inside on the disc, perform the above operation after moving the pickup to the inside.)

4-1-2 Adjusting the PLL frequency

1) With the tray open, connect the frequency counter between TP-1 and P407-2(D.GND), and short circuit between P407-1(EFM) and P407-2(D.GND).
2) Adjust V405 so that the PLL frequency is 4.3218MHz ± 0.05MHz at the stop mode.
   For this, use a ×10 sync probe with the frequency counter.

4-1-3 Tracking balance adjustment

1) Connect the oscilloscope between P407-3(TE1) and P407-8(A.GND). Short circuit between P407-4(TE2) and P407-8(A.GND) and press the PLAY (▶) button.
2) Adjust V401 so that the upper and lower amplitudes of the tracking error signal waveform become equal above and below 0V.

4-1-1 ピックアップアクチュエーター動作チェック

電源ON時ピックアップアクチュエーターが3回上下動すること。(ピックアップが最内周にないときは、最内周に移動後上記動作すること。) ディスクは装着しない。

4-1-2 PLL周波数調整

1) トレーをオープンした状態でTP-1とP407-2(D.GND)間に周波数カウンターを接続し、P407-1(EFM)とP407-2(D.GND)間をショートする。
2) ストップ状態での周波数が4.3218MHz ± 0.05MHzになるようにV405を調整する。
   周波数カウンターのプローブは、オシロ用プローブ×10使用。

4-1-3 トラッキングバランス調整

1) P407-3(TE1)とP407-8(A.GND)間にオシロスコープを接続する。P407-4(TE2)とP407-8(A.GND)をショートし、PLAYボタン(▶)を押す。
2) トラッキングエラー信号の波形が0Vを中心に振れるようV401を調整する。

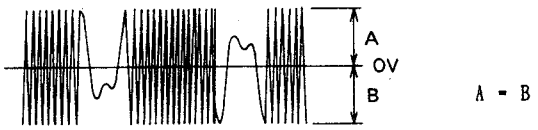


Fig. 4-6

4-1-4 Focus offset adjustment

1) Connect the oscilloscope between U401-2 and P407-8 (A.GND).
2) In the play mode, adjust V404 so that the waveform on the oscilloscope becomes maximum.
3) After adjusting the focus offset, stop the player. Check for an offset voltage of 50mV or less at P407-7(FE3). If reading values are out of spec, adjust V404 again.

4-1-4 フォーカスオフセット調整

1) U401-2とP407-8(A.GND)間にオシロスコープを接続する。
2) PLAY状態でオシロスコープの波形が最大になるようにV404を調整する。
3) フォーカスオフセット調整後STOP状態にしてP407-7(FE3)のオフセット電圧が50mV以下であることを確認する。もし規格に入らない場合は再度V404を調整する。

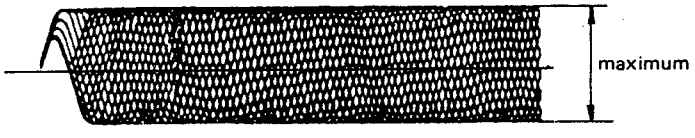


Fig. 4-7

4-1-5 Focus gain adjustment

Apply 1.03kHz/6.0Vp-p to P407-6(FE2) from an external OSC via 100kΩ resistor and adjust V403(FOCUS GAIN) so that phase at P407-5(FE1) is 90° with respect to that of the external OSC during playback.

4-1-5 フォーカスゲイン調整

外部OSCより100kΩの抵抗を経由して1.03kHz/6.0Vp-pの信号をP407-6(FE2)に入力し、プレイ状態でP407-5(FE1)と外部OSCとの位相が90°になるようにV403(FOCUS GAIN)を調整する。

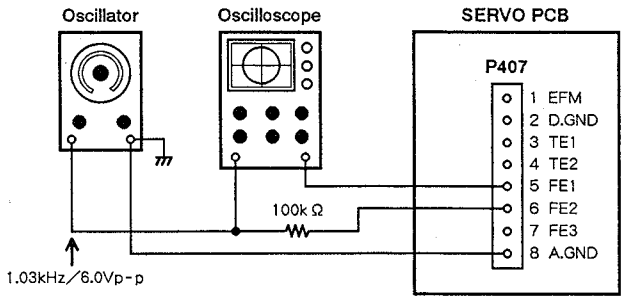


Fig. 4-8

4-1-6 Tracking gain adjustment

Apply 1.30kHz/6.0Vp-p to P407-4(TE2) from an external OSC via 100kΩ resistor and adjust V402(TRACKING GAIN) so that phase at P407-3(TE1) is 90° with respect to that of the external OSC during playback.

4-1-6 トラッキングゲイン調整

外部OSCより100kΩの抵抗を経由して1.30kHz/6.0Vp-pの信号をP407-4(TE2)に入力し、プレイ状態でP407-3(TE1)と外部OSCとの位相が90°になるようにV402(TRACKING GAIN)を調整する。

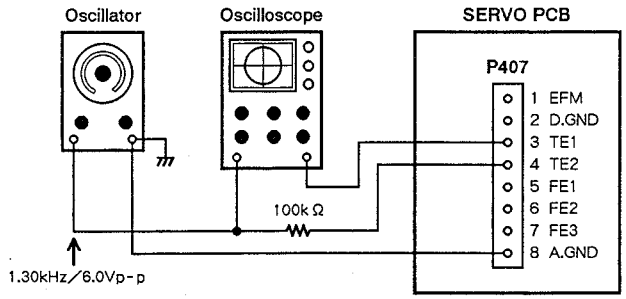


Fig. 4-9

4-2 ELECTRICAL CHARACTERISTICS
オーディオ調整

ITEM 測定項目	DISC : YEDS-18 (YEDS-7)		SPECIFICATIONS 規 格		REMARKS 備 考
	TRACK No.	FREQUENCY	CD-Z5000	CD-P4000	
1. Output level 出力レベル	2 (1)	1kHz	2.0 ± 0.3Vrms (FIX) 2.5 ± 0.4Vrms (VAR)	2.0 ± 0.5Vrms	
2. Channel level difference CH レベル差	2 (1)	1kHz	1.5dB or less (FIX) 1.5dB 以内 (FIX)	0.5dB or less 0.5dB 以内	
3. Phones level ヘッドホン出力	2 (1)	1kHz	1.2 ± 0.3Vrms	1.2 ± 0.3Vrms	33 Ω load 33 Ω 負荷
4. Harmonic distortion 高調波歪率	2 (1)	1kHz	0.005 % or less (FIX) 0.005 % 以下 (FIX) Lch : V102 coarse adj. V101 fine adj. Rch : V202 coarse adj. V201 fine adj. Lch : V102 粗調整 V101 微調整 Rch : V202 粗調整 V201 微調整	0.005 % or less 0.005 % 以下	400Hz~20kHz filter in [CD-Z5000 only] Adjust so that the distortion at 1kHz becomes minimum with FIXED OUTPUT. FIXED OUTPUT での 1kHz の歪率が最小となるように調整する。
5. Frequency response 周波数特性	3~6 (2~13)	20Hz~20kHz	Within + 1.0/− 1.5dB + 1.0/− 1.5dB 以内	Within + 1.0/− 1.5dB + 1.0/− 1.5dB 以内	reference level : 1kHz 1kHz 基準
6. S/N ratio S/N 比	7 (23)		98dB or better (FIX) 98dB 以上 (FIX)	95dB or better 95dB 以上	DIN AUDIO (Use SHIBASOKU 725 or equivalent) (シバソク 725 又は同等品使用)
7. Channel separation チャンネル セパレーション	8, 10 (30, 34)	1kHz	95dB or better (FIX) 95dB 以上 (FIX)	90dB or better 90dB 以上	DIN AUDIO
8. Emphasis effect エンファシス効果	13 (41)	16kHz	− 9 ± 1.0dB	− 9 ± 0.5dB	reference level : 1kHz 1kHz 基準

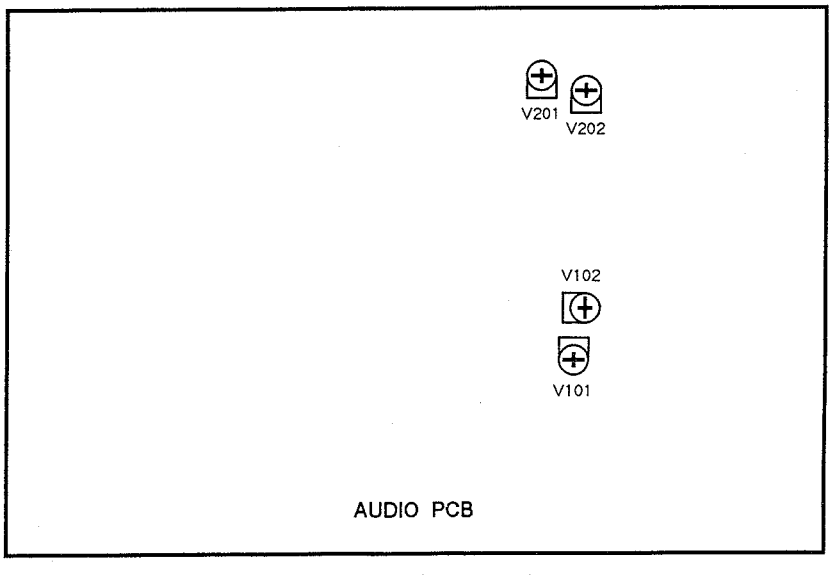
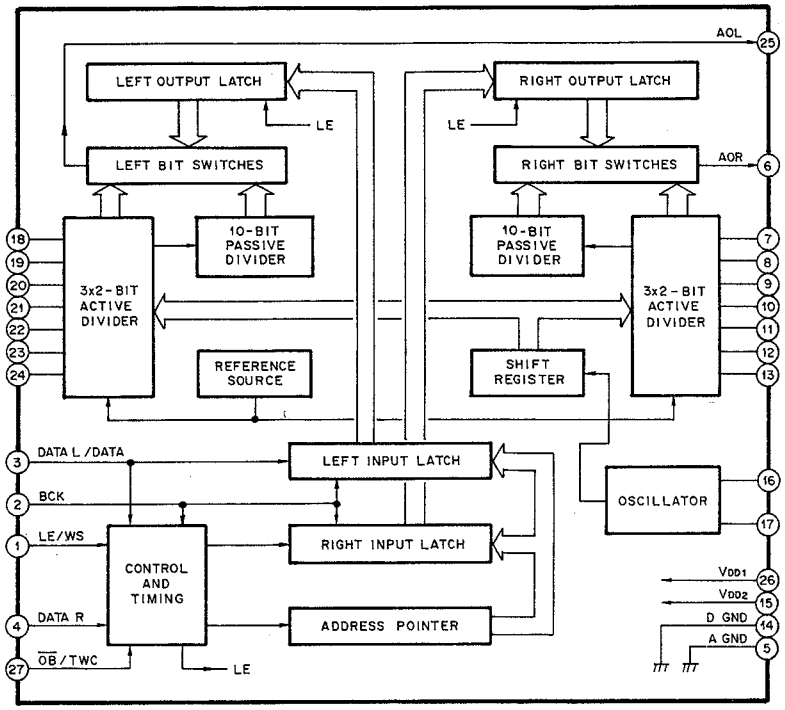


Fig. 4-10

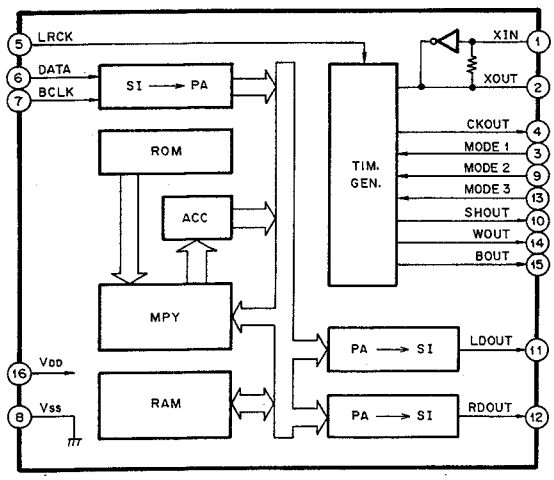
5 IC BLOCK DIAGRAMS

IC ブロック ダイヤグラム

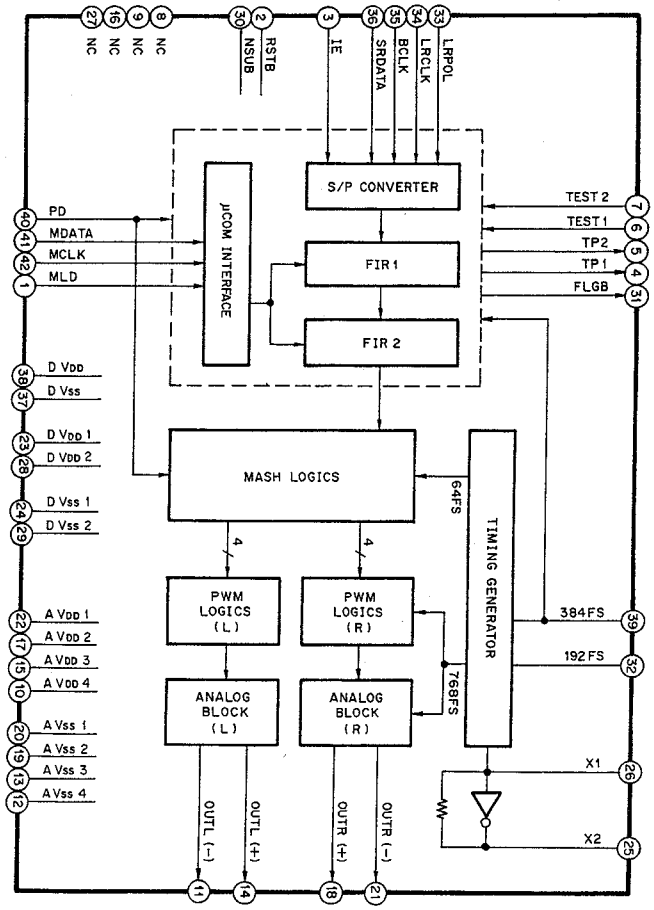
U101, 201 TDA1541A



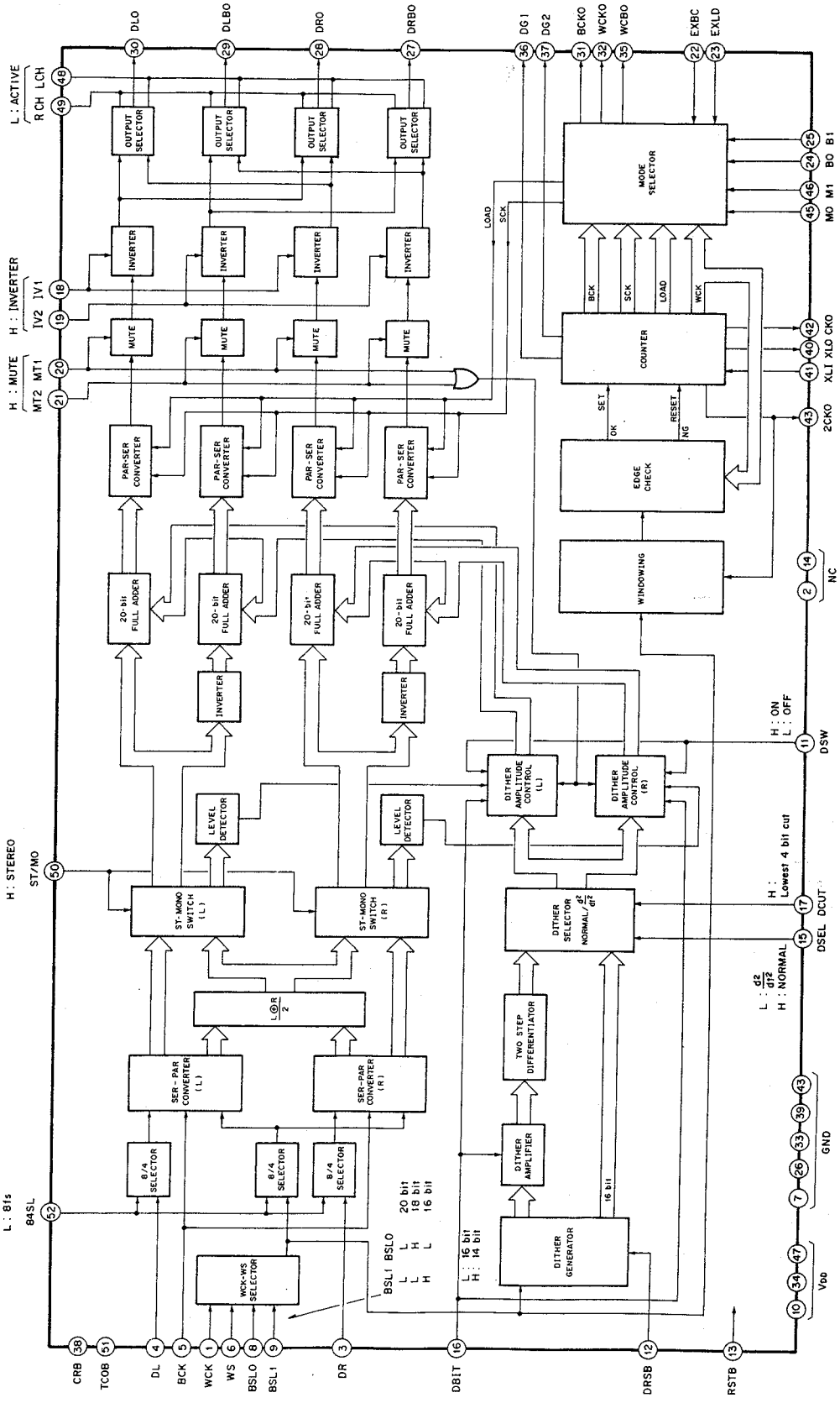
U301 〔CD-Z5000〕 PD0050



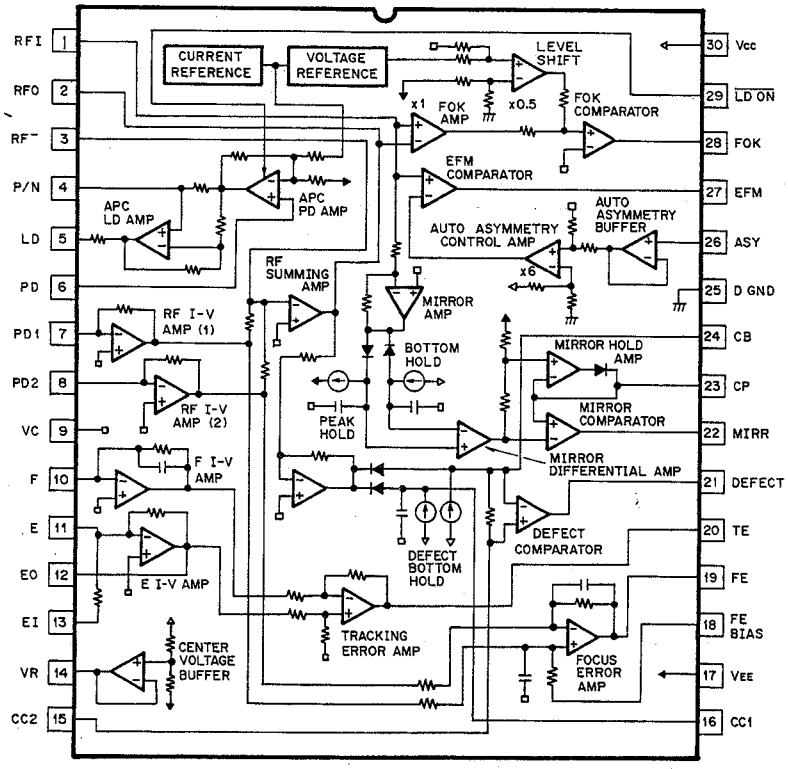
U301 〔CD-P4000〕 MN6474



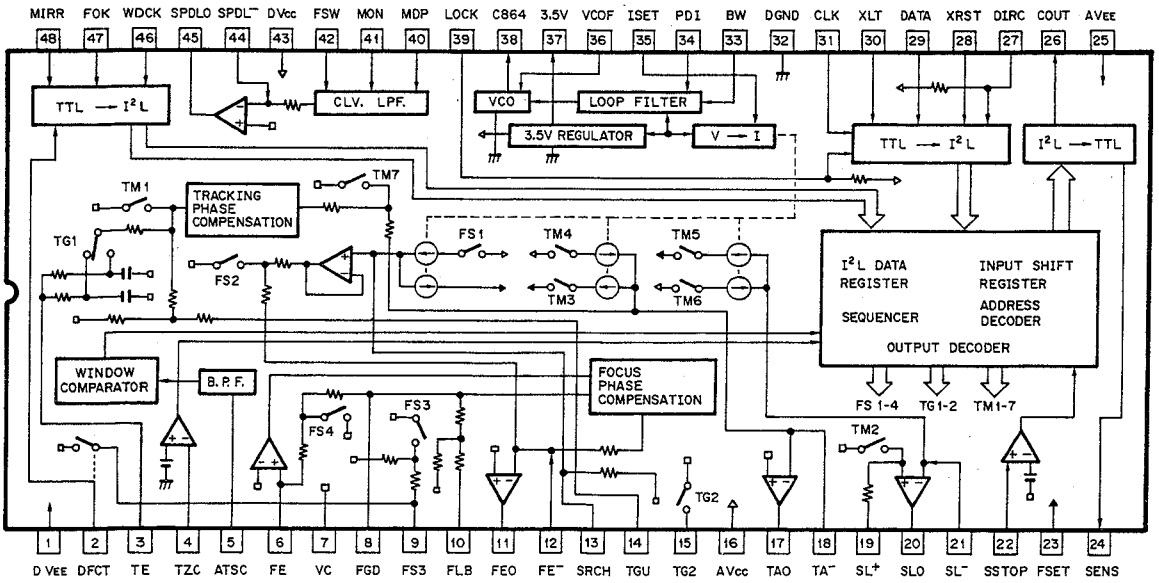
U302 µPD65031GC-433



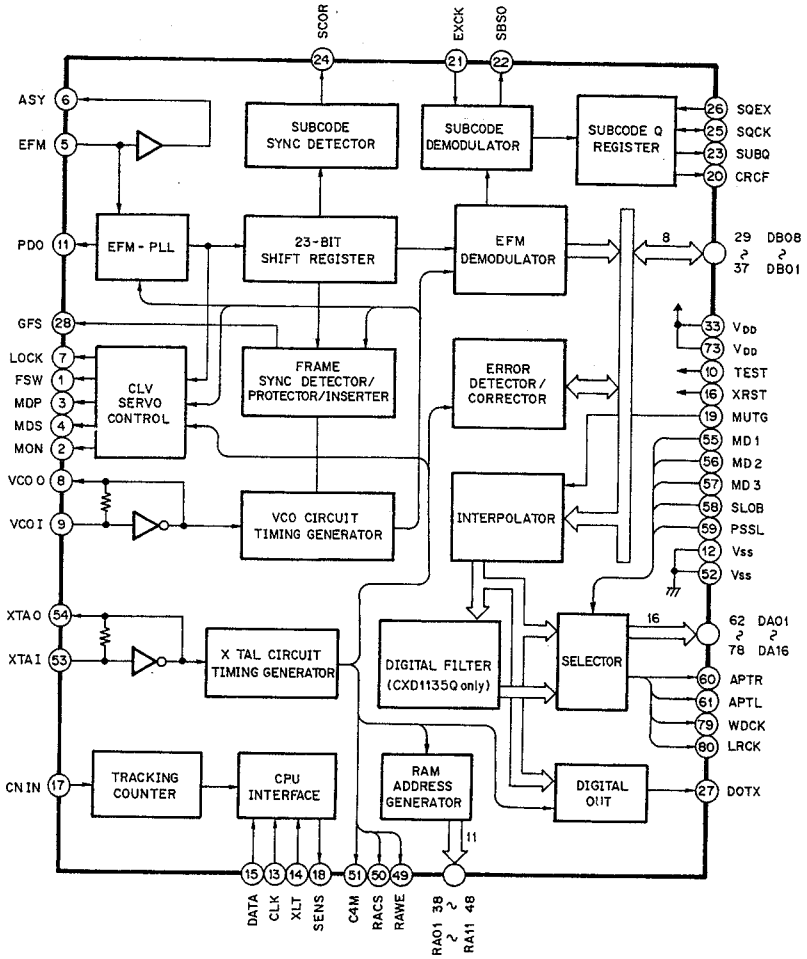
U401 **CXA1081S**



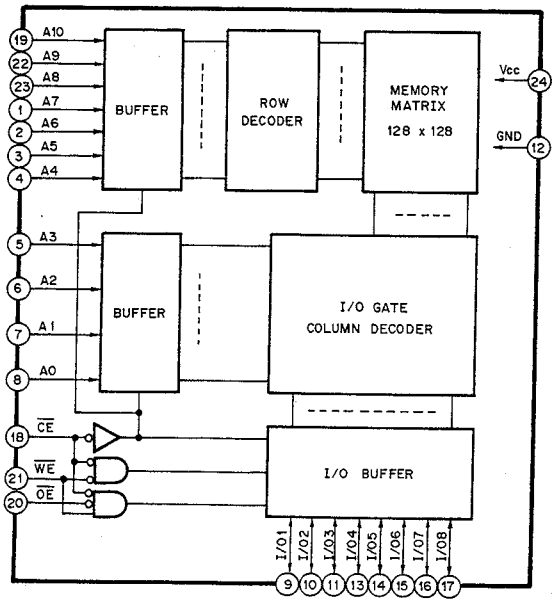
U402 **CXA1082BS**



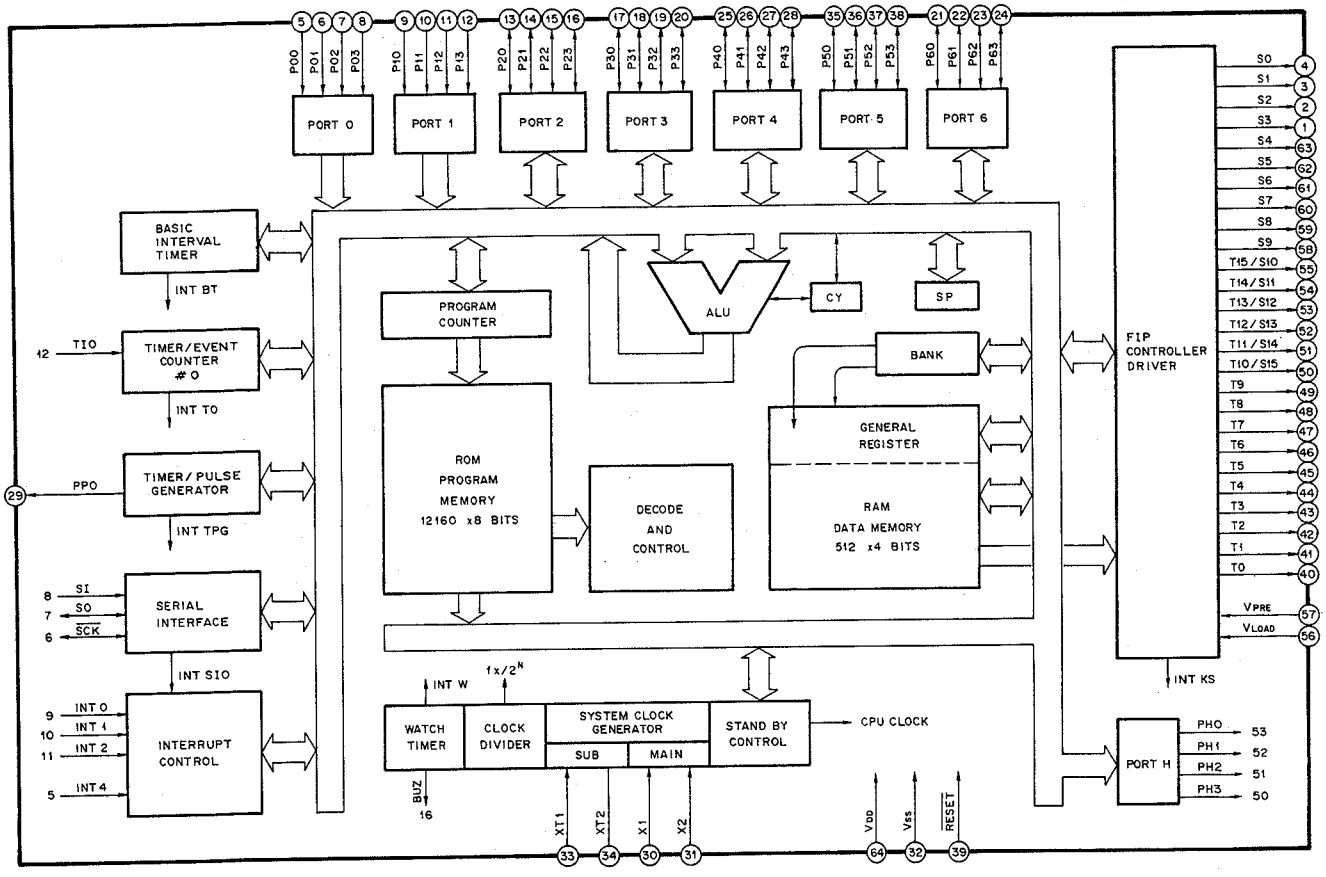
U403 CXD1125Q



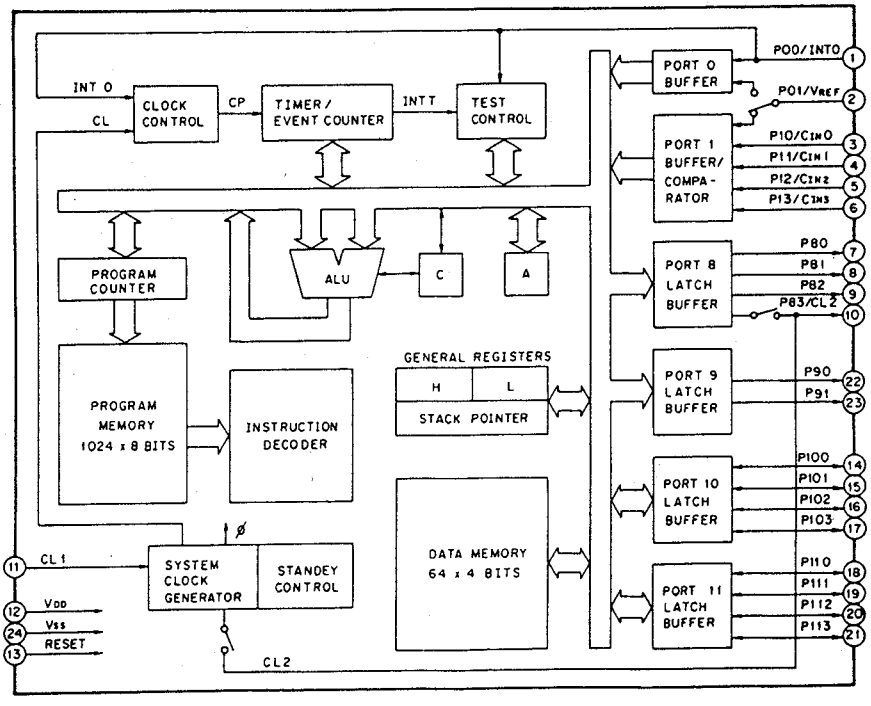
U404 CXK5816SP-15L



U409 µPD75212ACW



U601 µPD7566CS



PARTS LISTS SECTION

NOTES

- PC boards shown viewed from parts side.
- Parts marked with *require longer delivery time.
- The mechanical parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components refer to the appropriate parts list and ensure exact replacement.

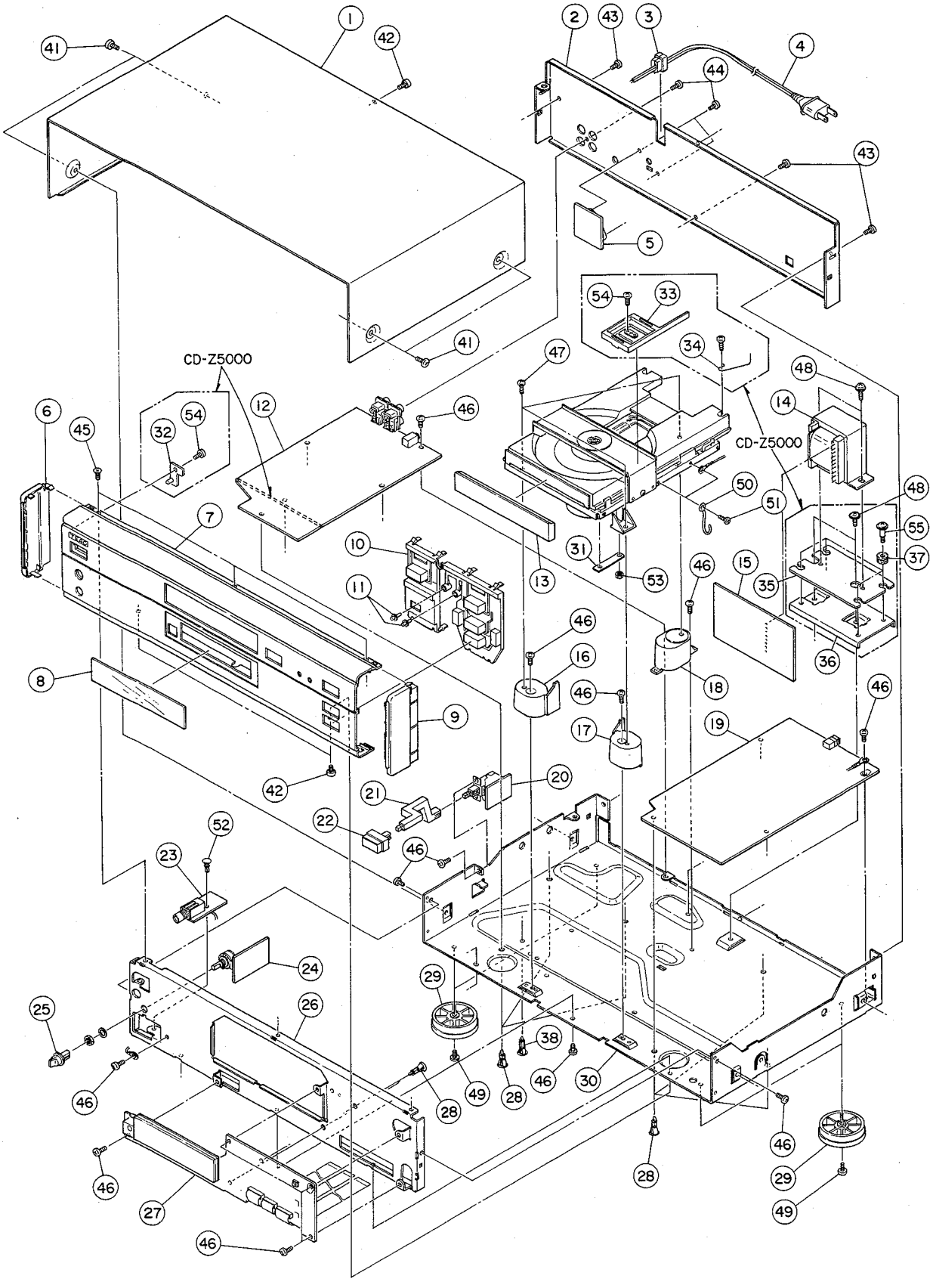
注　意

- プリント基板図は部品面が示されています。
- ＊印の部品は納期が若干かかります。あらかじめご了承ください。
- 分解図に部番のない部品及び品番のない部品は供給しません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- ⚠印は安全重要部品です。交換する時は必ずティアック指定の部品を使用してください。

6 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

EXPLODED VIEW-1



EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION		REMARKS
1- 1	*5800840002	BONNET	(CD-P4000)	
	*5801420200	BONNET ASSY	(CD-Z5000G)	
	*5801420400	BONNET ASSY (B)	(CD-Z5000B)	
1- 2	*5801396000	REAR PANEL	(CD-P4000)	
	*5801421400	REAR PANEL	(CD-Z5000G)	
	*5801422900	REAR PANEL (B)	(CD-Z5000B)	
1- 3	5317003400	BUSHING, 2271		
1- 4	⚠ 5128027000	AC CORD	[J]	
	⚠ 5350010700	AC CORD, UL SPT-2	[US,C,GE]	
	⚠ 5350011700	AC CORD, CEE CLASS-2	[E]	
	⚠ 5128047000	AC CORD, BS	[UK]	
	⚠ 5350008300	AC CORD, SAA	[A]	
1- 5	*5200289000	SEL PCB ASSY [GE]		Ref. pages 23 & 26
1- 6	*5801272201	END CAP (A) L	(CD-P4000/CD-Z5000B)	
	*5801284500	END CAP (B) L	(CD-Z5000G)	
1- 7	*5801396200	FRONT PANEL ASSY	(CD-P4000)	
	*5801420800	FRONT PANEL ASSY [J,GE,E,UK]	(CD-Z5000G)	
	*5801421000	FRONT PANEL ASSY [US,C]	(CD-Z5000G)	
	*5801420900	FRONT PANEL ASSY (B)	(CD-Z5000B)	
1- 8	*5801272100	WINDOW		
1- 9	*5801272300	END CAP (A) R	(CD-P4000/CD-Z5000B)	
	*5801284600	END CAP (B) R	(CD-Z5000G)	
1-10	*5801272403	BUTTON BASE (A)	(CD-P4000)	
	*5801285101	BUTTON ASSY (A)	(CD-Z5000G)	
	*5801285302	BUTTON ASSY (C)	(CD-Z5000B)	
1-11	*5801272501	SKIP BUTTON		
1-12	*5200289110	AUDIO PCB ASSY	(CD-P4000)	Ref. pages 22 & 25
	*5200293110	AUDIO PCB ASSY	(CD-Z5000)	Ref. pages 22 & 25
1-13	*5801400400	TRAY PANEL	(CD-P4000)	
	*5801423000	TRAY PANEL	(CD-Z5000G)	
	*5801423500	TRAY PANEL (B)	(CD-Z5000B)	
1-14	⚠ *5320056300	POWER TRANSFORMER [J]		
	⚠ *5320057300	POWER TRANSFORMER [US,C]		
	⚠ *5320056400	POWER TRANSFORMER [GE]		
	⚠ *5320056500	POWER TRANSFORMER [E,UK,A]		
1-15	*5200288800	POWER PCB ASSY [J]		Ref. pages 23 & 26
	*5200288810	POWER PCB ASSY [GE]		Ref. pages 23 & 26
	*5200288820	POWER PCB ASSY [US,C]		Ref. pages 23 & 26
	*5200288830	POWER PCB ASSY [E]		Ref. pages 23 & 26
	*5200288840	POWER PCB ASSY [UK,A]		Ref. pages 23 & 26
1-16	*5801280601	MECH BASE (L)		
1-17	*5801280700	MECH BASE (R)		
1-18	*5801280800	MECH BASE (CENTER)		
1-19	*5200313500	SERVO PCB ASSY	(CD-P4000)	Ref. pages 21 & 24
	*5200313510	SERVO PCB ASSY	(CD-Z5000)	Ref. pages 21 & 24
1-20	*5200288900	PSW PCB ASSY [J,US,C,GE]		Ref. pages 23 & 26
	*5200288910	PSW PCB ASSY [E,UK,A]		Ref. pages 23 & 26
1-21	*5801273301	JOINT		
1-22	*5801280901	POWER BUTTON (A)	(CD-P4000/CD-Z5000B)	
	*5801285200	BUTTON ASSY (B)	(CD-Z5000G)	
1-23	*5200288600	HP PCB ASSY	(CD-P4000)	Ref. pages 23 & 26
	*5200293330	HP PCB ASSY	(CD-Z5000G)	Ref. pages 23 & 26
	*5200293320	HP PCB ASSY	(CD-Z5000B)	Ref. pages 23 & 26
1-24	*5200288500	VOL PCB ASSY	(CD-P4000)	Ref. pages 23 & 26
	*5200293210	VOL PCB ASSY	(CD-Z5000)	Ref. pages 23 & 26

CD-Z5000G:Gold panel CD-Z5000B:Black panel [J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
Parts marked with *require longer delivery time. [UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

EXPLODED VIEW-1

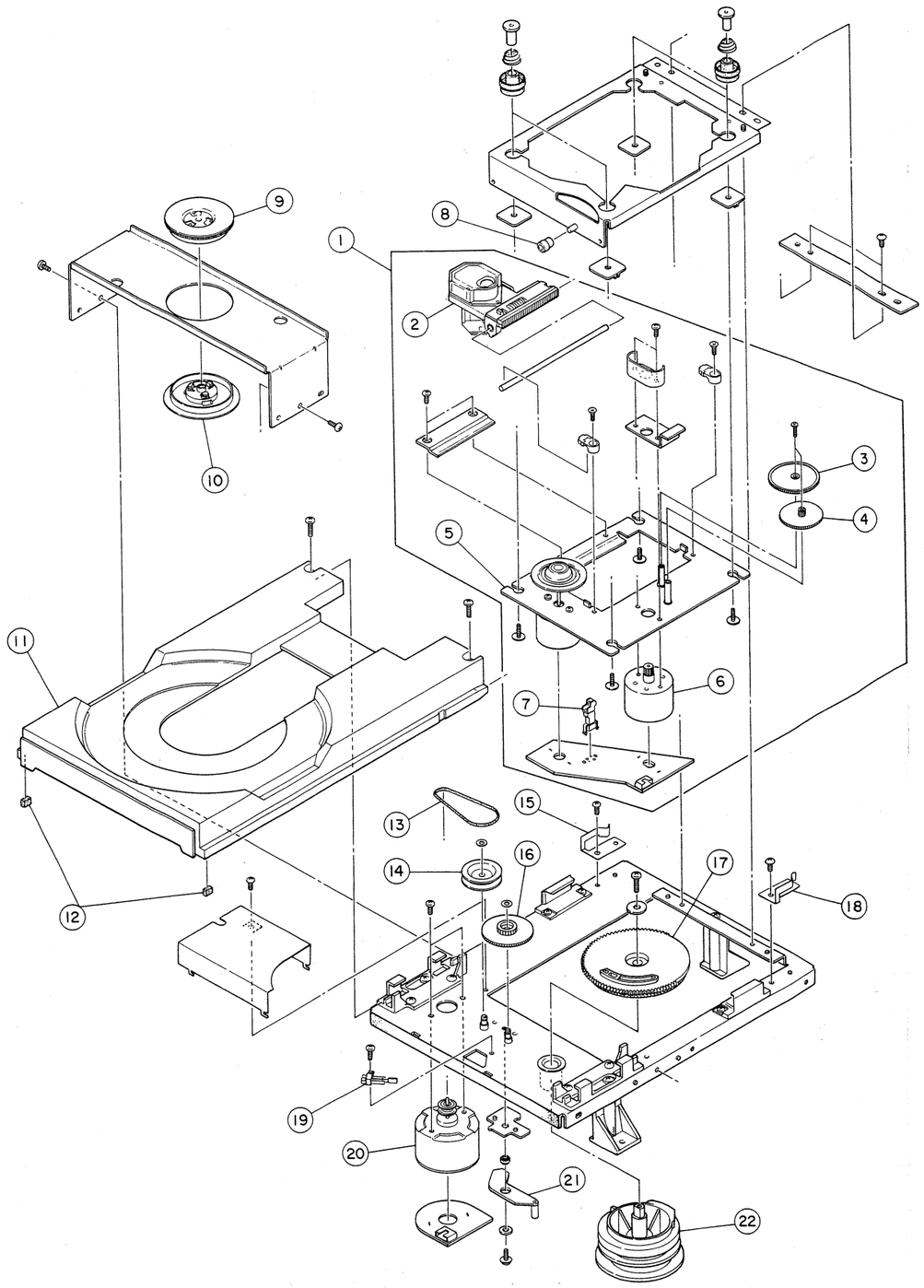
REF.NO.	PARTS NO.	DESCRIPTION		REMARKS
1-25	*5801271900	KNOB (A)	(CD-P4000/CD-Z5000B)	
	*5801284700	KNOB (B)	(CD-Z5000G)	
1-26	*5801272900	FRONT CHASSIS		
1-27	*5200288400	KEY PCB ASSY	(CD-P4000)	Ref. pages 21 & 25
	*5200288410	KEY PCB ASSY	(CD-Z5000)	Ref. pages 21 & 25
1-28	5787007300	PCB SUPPORT, RSPLS-10		
1-29	*5801414900	FOOT ASSY		
1-30	*5801272700	MAIN CHASSIS		
1-31	*5801308300	MECH STOPPER		
1-32	*5200293500	LED PCB ASSY	(CD-Z5000)	Ref. pages 23 & 26
1-33	*5801420500	TRAY ADAPTOR	(CD-Z5000)	
1-34	*5801420100	TRAY SPRING	(CD-Z5000)	
1-35	*5801420600	TRANS SHASSIS (A)	(CD-Z5000)	
1-36	*5801420700	TRANS SHASSIS (B)	(CD-Z5000)	
1-37	5317006300	BUSH	(CD-Z5000)	
1-38	5787007500	PCB SUPPORT, RSPLS-14	(CD-Z5000)	
1-41	*5800612400	SCREW, BONNET M3X8 (BLK)		
1-42	5783613008	SCREW, B.C-TITE M3X8 (NI-BLK)		
1-43	5783693006	SCREW, BIND S-TITE M3X6 (NI-BLK)		
1-44	5783543008	SCREW, BIND P-TITE M3X8 (NI-BLK)		
1-45	5783043008	SCREW, FLAT S-TITE M3X8		
1-46	5783033006	SCREW, BIND S-TITE M3X6		
1-47	5783603010	SCREW, BIND P-TITE M3X10		
1-48	5783624006	SCREW, WASHER S-TITE M4X6		
1-49	5783033016	SCREW, BIND S-TITE M3X16		
1-50	5581038000	HARNESS CLIP		
1-51	5730017600	SCREW, BIND BR-TITE M3X6		
1-52	5534878000	PUSH RIVET		
1-53	5781812600	NUTS, #1 M2.6		
1-54	5783603006	SCREW, BIND P-TITE M3X6	(CD-Z5000)	
1-55	*5801433000	SCREW, S-TITE M3X12	(CD-Z5000)	

INCLUDED ACCESORIES

REF.NO.	PARTS NO.	DESCRIPTION		REMARKS
	*5700123200	OWNER'S MANUAL [J]	(CD-P4000)	
	*5700123300	OWNER'S MANUAL [EXCEPT J]	(CD-P4000)	
	*5700125200	OWNER'S MANUAL [J]	(CD-Z5000)	
	*5700125400	OWNER'S MANUAL [US,C]	(CD-Z5000)	
	*5700125300	OWNER'S MANUAL [GE,E,UK]	(CD-Z5000)	
	*5744079500	REMOTE CONTROL UNIT, RC-388		
		[ALL]	(CD-P4000)	
		[J,GE,E,UK]	(CD-Z5000)	
	*5744080400	REMOTE CONTROL UNIT, RC-386		
		[US,C]	(CD-Z5000)	
	5347006900	BATTERY [J]		
	5347007000	BATTERY [EXCEPT J]		
	5350017300	CORD, IN-OUT		

CD-Z5000G:Gold panel CD-Z5000B:Black panel [J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
Parts marked with *require longer delivery time. [UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

EXPLODED VIEW-2



EXPLODED VIEW-2

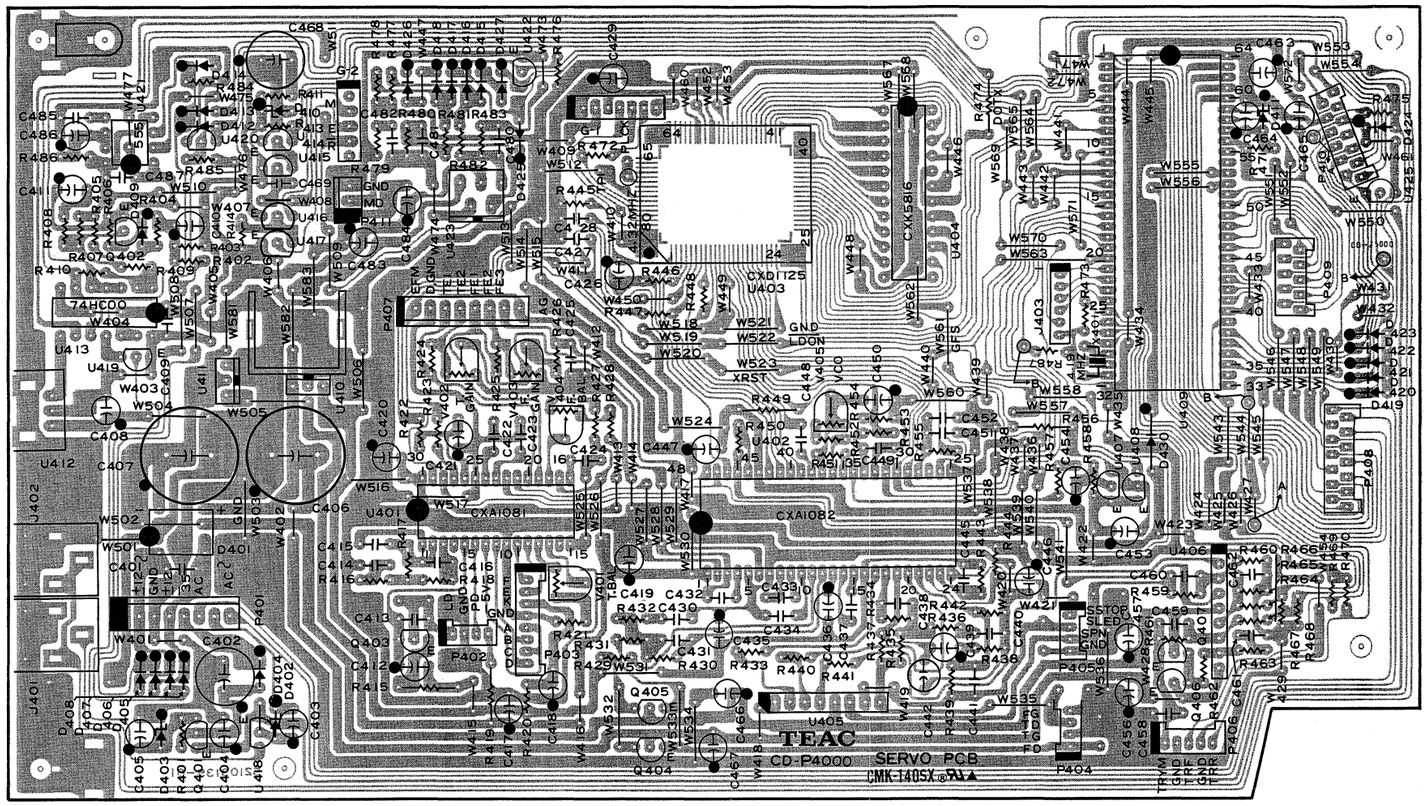
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*5761838400	CD MECH ASSY, KSM-210AFM	
2- 2	*5761838300	LASER PICK UP, KSS-210A	
2- 3	*5761775700	GEAR A	
2- 4	*5761775800	GEAR B	
2- 5	*5761844600	SP MOTOR ASSY	
2- 6	*5761844500	SLED MOTOR ASSY	
2- 7	*5761844800	SW, LEAF	
2- 8	*5761786000	ROLLER	
2- 9	*5761786400	MAGNET ASSY	
2-10	*5761786601	CHUCKING PULLY	
2-11	*5761786700	TRAY	
2-12	*5761789700	DAMPER	
2-13	*5761787700	LM BELT	
2-14	*5761787800	LOADING PULLY	
2-15	*5761788600	TRAY GUIDE (LEFT)	
2-16	*5761787600	MIDDLE GEAR	
2-17	*5761787100	DRIVE GEAR	
2-18	*5761788500	TRAY GUIDE (RIGHT)	
2-19	*5761787400	SW, LEAF	
2-20	*5761788000	MOTOR ASSY	
2-21	*5761789300	STOPPER LINK ASSY	
2-22	*5761787200	CONTROL CAM	

Parts marked with *require longer delivery time.

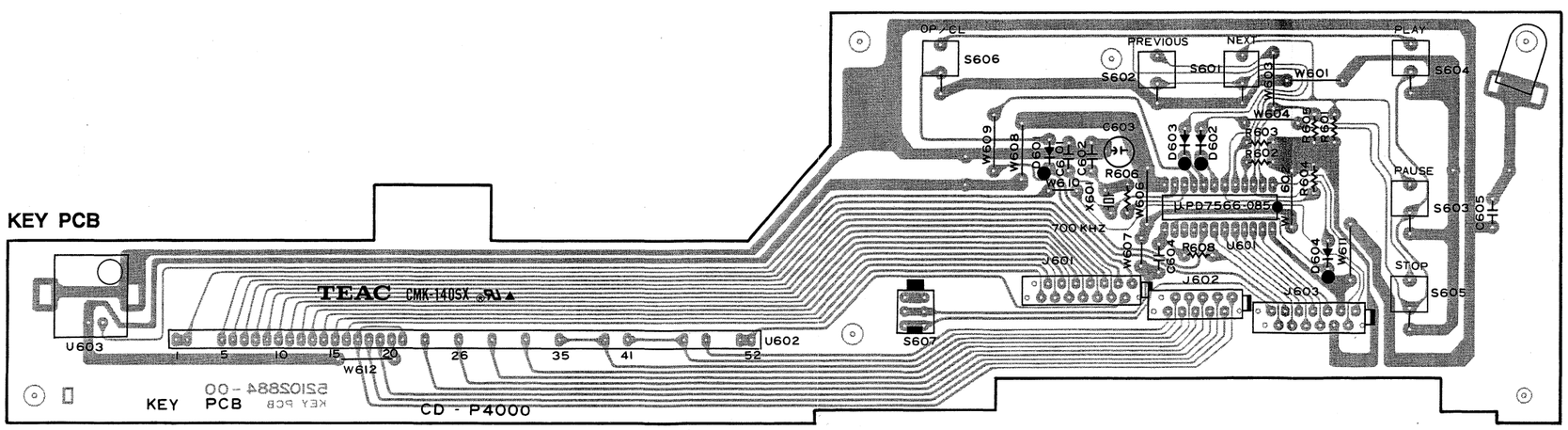
[J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
[UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

7 PC BOARDS AND PARTS LIST
基板図とパーツリスト

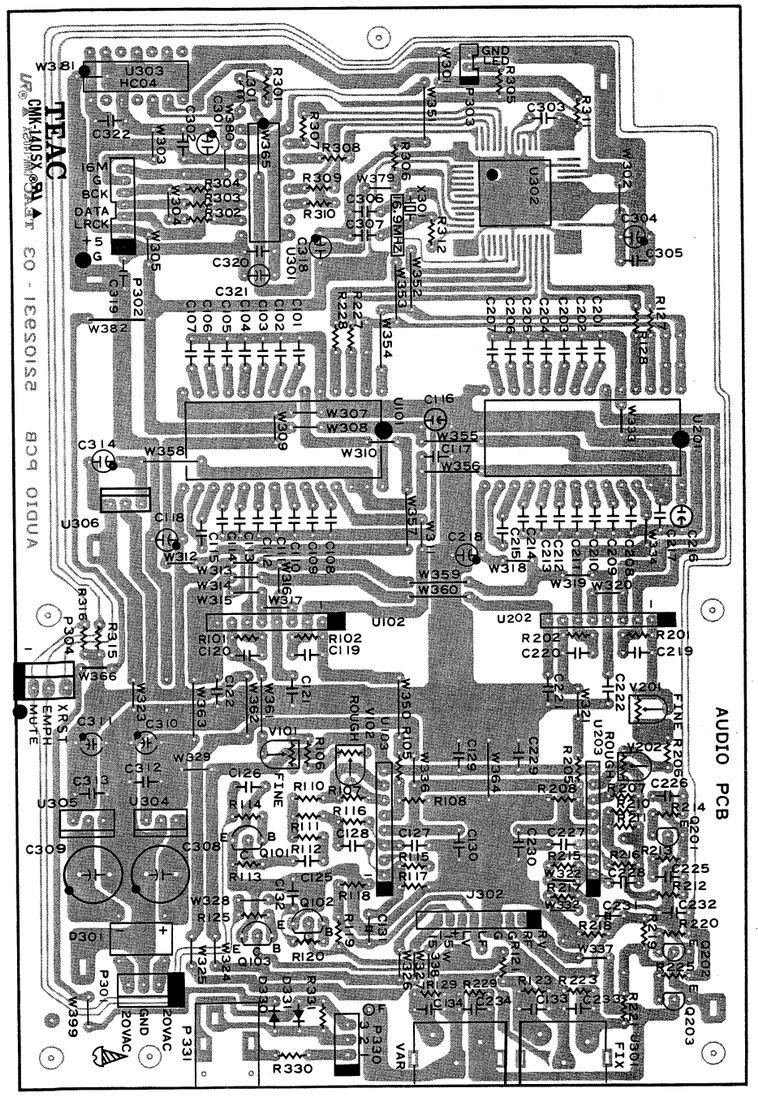
SERVO PCB



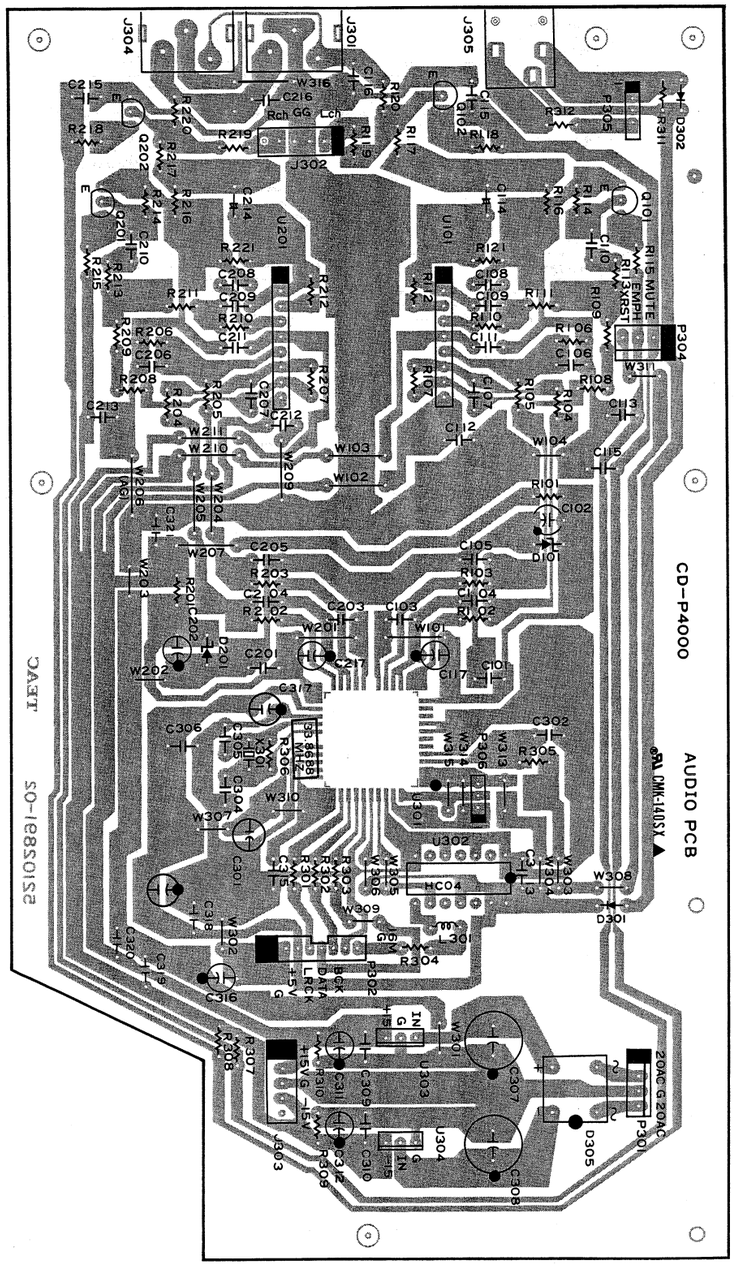
KEY PCB



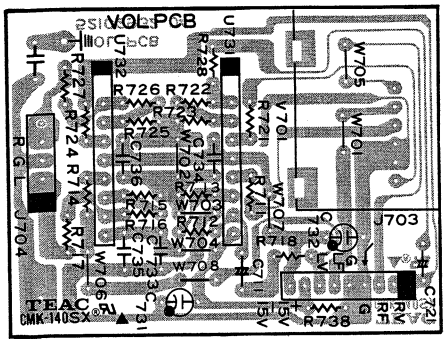
AUDIO PCB [CD-Z5000]



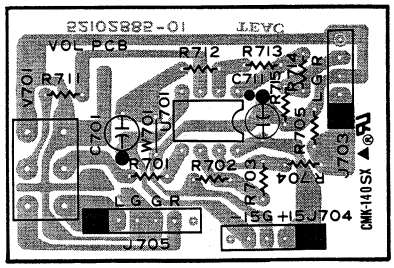
AUDIO PCB [CD-P4000]



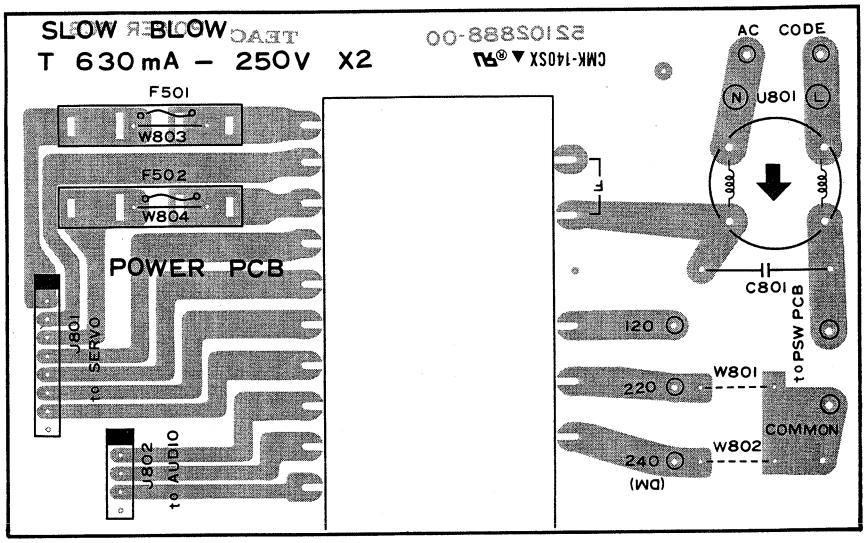
VOL PCB [CD-Z5000]



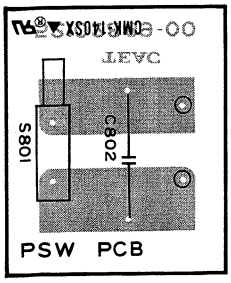
VOL PCB [CD-P4000]



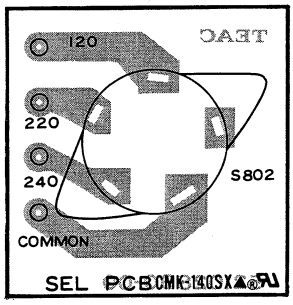
POWER PCB



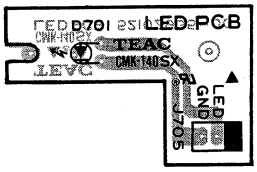
PSW PCB



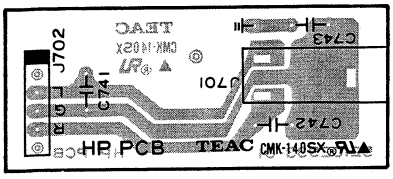
SEL PCB



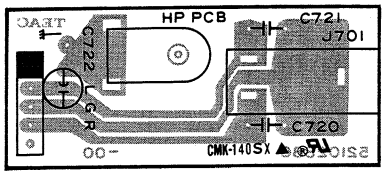
LED PCB [CD-Z5000]



HP PCB [CD-Z5000]



HP PCB [CD-P4000]



SERVO PCB ASSY (CD-Z5000)

REF.NO.		PARTS NO.	DESCRIPTION
		*5200313510	SERVO PCB ASSY
		*5210313501	SERVO PCB
		5340000300	WIRE HOLDER 3P
		*5800990100	HEAT SINK
		5730017600	SCREW, BIND BR-TITE M3X6
		5555590000	EARTH PLATE A
C401	⚠	5263167323	C, METAL 0.033UF/50V
C402	⚠	5260424320	C, ELEC.100UF/50V
C406	⚠	5260428110	C, ELEC.4700UF/16V
C407	⚠	5173088000	C, ELEC.2200UF/16V
C468	⚠	5260426410	C, ELEC.1000UF/16V
D401	⚠	5228010700	SILICON STACK, SIWB(A)20
D402		5224585621	DIODE, ZENER RD6.2ESB1
D403		5224592921	DIODE, ZENER RD33ESB2
D404	⚠	5224016420	DIODE, S5688G
D405-409	⚠	5224017820	DIODE, MA165P-TA5
D410		5224585321	DIODE, ZENER RD5.6ESB2
D411		5224587221	DIODE, ZENER RD9.1ESB1
D412-427		5224017820	DIODE, MA165P-TA5
D430,431		5224017820	DIODE, MA165P-TA5
P401		5336257700	CONNECTOR PLUG 7P
P402		5336251400	CONNECTOR PLUG (RED)
P403		5336249800	CONNECTOR PLUG (WHT)
P404		5336249400	CONNECTOR PLUG (WHT)
P405		5336255400	CONNECTOR PLUG (BLK)
P406		5336249500	CONNECTOR PLUG (WHT)
P407		5336126800	CONNECTOR PLUG (WHT)
P408		5336296400	CONNECTOR SOCKET
P409		5336296000	CONNECTOR SOCKET
P410		5336296300	CONNECTOR SOCKET
P411		5336257200	CONNECTOR PLUG 2P
Q401	⚠	5230509100	TR, 2SB562C
Q402		5230781120	TR, 2SC1740SLN
Q403		5230509100	TR, 2SB562C
Q404		5231762900	TR, 2SD774
Q405		5230509100	TR, 2SB562C
Q406		5231762900	TR, 2SD774
Q407		5230510000	TR, 2SB734
TP1		5544750000	PIN, CONBINATION
U401		5220441400	IC, CXA1081S
U402		5220441500	IC, CXA1082BS
U403		5220062300	IC, CXD1125Q
U404		5220074600	IC, CXK5816SP-15L
U405		5220439300	IC, STA341M
U406		5220440600	IC, NJM4565L
U407		5232257820	DIGITAL TR, UN4211
U409		5220824500	IC, UPD75212ACW-239
U410	⚠	13447943	IC, NJM78M05FA
U411	⚠	13447961	IC, NJM79M05FA
U412		5292209800	OPT.TRANSMITTER MODULE
U413		5220065900	IC, HD74HC00P
U414		5232257820	DIGITAL TR, UN4211
U415		5232259220	DIGITAL TR, UN4111
U416		5232257820	DIGITAL TR, UN4211
U417		5232259220	DIGITAL TR, UN4111

SERVO PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
U418	5232257820	DIGITAL TR, UN4211
U419	5232259220	DIGITAL TR, UN4111
U420	5232257820	DIGITAL TR, UN4211
U421	5220434100	IC, NJM555D
U422	5232257820	DIGITAL TR, UN4211
U423	5220442500	IC, LA6500
U425	5232259220	DIGITAL TR, UN4111
V401-403	5280021500	VR, SEMI-FIXED 22KB
V404	5280021100	VR, SEMI-FIXED 4.7KB
V405	5280020700	VR, SEMI-FIXED 1KB
X401	5347012000	OSC., CERAMIC CST4.19MGW

SERVO PCB ASSY (CD-P4000)

REF.NO.		PARTS NO.	DESCRIPTION
		*5200313500	SERVO PCB ASSY
		*5210313501	SERVO PCB
		5340000300	WIRE HOLDER 3P
		*5800990100	HEAT SINK
		5730017600	SCREW, BIND BR-TITE M3X6
		5555590000	EARTH PLATE A
C401	⚠	5263167323	C, METAL 0.033UF/50V
C402	⚠	5260424320	C, ELEC.100UF/50V
C406	⚠	5260428110	C, ELEC.4700UF/16V
C407	⚠	5173088000	C, ELEC.2200UF/16V
C468	⚠	5260426410	C, ELEC.1000UF/16V
D401	⚠	5228010700	SILICON STACK, SIWB8(A)20
D402		5224585621	DIODE, ZENER RD6.2ESB1
D403		5224592921	DIODE, ZENER RD33ESB2
D404	⚠	5224016420	DIODE, S5688G
D405-409	⚠	5224017820	DIODE, MA165P-TA5
D410		5224585321	DIODE, ZENER RD5.6ESB2
D411		5224587221	DIODE, ZENER RD9.1ESB1
P401		5336257700	CONNECTOR PLUG 7P
P402		5336251400	CONNECTOR PLUG (RED)
P403		5336249800	CONNECTOR PLUG (WHT)
P404		5336249400	CONNECTOR PLUG (WHT)
P405		5336255400	CONNECTOR PLUG (BLK)
P406		5336249500	CONNECTOR PLUG (WHT)
P407		5336126800	CONNECTOR PLUG (WHT)
P408		5336296400	CONNECTOR SOCKET
P409		5336296000	CONEECTOR SOCKET
P410		5336296300	CONNECTOR SOCKET
Q401	⚠	5230509100	TR, 2SB562C
Q402		5230781120	TR, 2SC1740SLN
Q403,405		5230509100	TR, 2SB562C
Q404,406		5231762900	TR, 2SD774
Q407		5230510000	TR, 2SB734
TP1		5544750000	PIN, CONBINATION
U401		5220441400	IC, CXA1081S

Parts marked with *require longer delivery time.

[J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
[UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

SERVO PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
U402	5220441500	IC, CXA1082BS
U403	5220062300	IC, CXD1125Q
U404	5220074600	IC, CXK5816SP-15L
U405	5220439300	IC, STA341M
U406	5220440600	IC, NJM4565L
U407	5232257820	DIGITAL TR, UN4211
U409	5220824500	IC, UPD75212ACW-239
U410	⚠ 13447943	IC, NJM78M05FA
U411	⚠ 13447961	IC, NJM79M05FA
U412	5292209800	OPT.TRANSMITTER MODULE
U413	5220065900	IC, HD74HC00P
U414,416	5232257820	DIGITAL TR, UN4211
U415,417	5232259220	DIGITAL TR, UN4111
V401-403	5280021500	VR, SEMI-FIXED 22KB
V404	5280021100	VR, SEMI-FIXED 4.7KB
V405	5280020700	VR, SEMI-FIXED 1KB
X401	5347017700	OSC.,EFO-GC4194A4

KEY PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288410	KEY PCB ASSY
	*5210288400	KEY PCB
	*5801001000	FL CUSHION (A)
	5555590000	EARTH PLATE A
D601-604	5224017820	DIODE, MA165P-TA5
J601	5340007400	WIRE HOLDER 14P 5062
J602	5340007000	WIRE HOLDER 10P 5062
J603	5340007300	WIRE HOLDER 13P 5062
S601-606	5302108600	SW, TACT SKHVBE
S607	5300042600	SW, PUSH 2-2 N
U601	5220812900	IC, UPD7566CS-085
U602	5347007800	FL DISPLAY, FIP14GM8
U603	5292209500	REMO-CON RECEIV.,SBX1483-52
X601	5347006500	OSC., CERAMIC

KEY PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288400	KEY PCB ASSY
	*5210288400	KEY PCB
	*5801001000	FL CUSHION (A)
	5555590000	EARTH PLATE A
D601-604	5224017820	DIODE, MA165P-TA5
J601	5340007400	WIRE HOLDER 14P
J602	5340007000	WIRE HOLDER 10P
J603	5340007300	WIRE HOLDER 13P
S601-606	5302108600	SW, TACT SKHVBE
U601	5220812900	IC, UPD7566CS-085
U602	5347007800	FL DISPLAY, FIP14GM8
U603	5292209500	REMO-CON RECEIV.,SBX1483-52
X601	5347006500	OSC.,CERAMIC

Parts marked with *require longer delivery time.

AUDIO PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200293110	AUDIO PCB ASSY
	*5210293103	AUDIO PCB
	5730040100	HEAT SINK
	5730018100	COATING CLIP, CP-1S
C308,309	⚠ 5260426010	C, ELEC.470UF/35V
D301	⚠ 5228010700	SILICON STACK, S1WB(A)20
D330,331	5224017820	DIODE, MA165P-TA5
J301,302	5330513300	PIN JACK 2P, YKC21-0296
L301	14727479	FERRITE BEADS
P301	5336257300	CONNECTOR PLUG 3P
P302	5336249700	CONNECTOR PLUG (WHT)
P303	5336249200	CONNECTOR PLUG (WHT)
P304	5336257300	CONNECTOR PLUG 3P
P330	5336249300	CONNECTOR PLUG (WHT)
P331	5330016700	JACK 3P, YKB21-5130
Q101,201	5231762520	TR, 2SD1915TA
Q102,202	5231762520	TR, 2SD1915TA
Q103,203	5231762520	TR, 2SD1915TA
R101,201	5241458620	R, METAL FILM 1.5K
R102,202	5241458620	R, METAL FILM 1.5K
R105,205	5241460620	R, METAL FILM 10K
R106,206	5241460520	R, METAL FILM 9.1K
R107,207	5241459820	R, METAL FILM 4.7K
R108,208	5241459820	R, METAL FILM 4.7K
U101,201	5220090100	IC, TDA1541A
U102,202	5220431200	IC, M5238L
U103,203	5220431200	IC, M5238L
U301	5220090000	IC, PD0050
U302	5220088300	IC, UPD65031GC-433
U303	5220066200	IC, HD74HC04P
U304	⚠ 5220437500	IC, UPC78M15HF
U305	⚠ 5220436900	IC, UPC79M15HF
U306	⚠ 5220436600	IC, UPC79M05HF
V101,201	5280215500	VR, SEMI-FIXED 100B
V102,202	5280215900	VR, SEMI-FIXED 2.2KB
X301	5347003500	OSC.,CRYSTAL 16.9344MHZ

AUDIO PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200289110	AUDIO PCB ASSY
	*5210289102	AUDIO PCB
C307,308	⚠ 5260307300	C, ELEC 470UF/35V
D101,201	5224584921	DIODE, ZENER RD5.1ESB2
D301,302	5224017820	DIODE, MA165P-TA5
J301,304	5330513300	PIN JACK 2P, YKC21-0296
J305	5330016700	JACK, YKB21-5130
L301	14727478	FERRITE BEADS
P301,304	5336257300	CONNECTOR PLUG 3P
P302	5336249700	CONNECTOR PLUG (WHT)

[J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
[UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

AUDIO PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
P305	5336255300	CONNECTOR PLUG (BLK)
P306	5336249300	CONNECTOR PLUG (WHT)
Q101,201	5231762520	TR, 2SD1915TA
Q102,202	5231762520	TR, 2SD1915TA
U101,201	5220440600	IC, NJM4565L
U301	5220093000	IC, MN6474
U302	5220066200	IC, HD74HC04P
U303	⚠ 5220437500	IC, UPC78M15HF
U304	⚠ 5220436900	IC, UPC79M15HF
U305	⚠ 5228010700	SILICON STACK, SIWB8(A)20
X301	5347016300	OSC.,CRYSTAL 33.9MHZ

VOL PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200293210	VOL PCB ASSY
	*5210293204	VOL PCB
U731,732	5220440200	IC, BA15218N
V701	5282416300	VR, RK16Y12MXB-20KBX2 1S2UVR

VOL PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288500	VOL PCB ASSY
	*5210288501	VOL PCB
U701	5220430100	IC, NJM2068D
V701	5282415700	VR, RK16312A-20KBX2 1S2UVR

POWER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288800	POWER PCB ASSY [J]
	*5200288810	POWER PCB ASSY [GE]
	*5200288820	POWER PCB ASSY [US,C]
	*5200288830	POWER PCB ASSY [E]
	*5200288840	POWER PCB ASSY [UK,A]
	*5210288800	POWER PCB
	5327007200	TERMINAL 2P
	5340000300	WIRE HOLDER 3P
	5332015800	FUSE HOLDER [E,UK,A]
F501,502	⚠ 5142185000	FUSE,MINI 630MA/250V[E,UK,A]
U801	⚠ 5292806300	NOISE FILTER, FKOB16MH13

PSW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288900	PSW PCB ASSY [J,US,C,GE]
	*5200288910	PSW PCB ASSY [E,UK,A]
	*5210288900	PSW PCB
C802	⚠ 5267704100	C,SPARK KILLER 0.0047UF/250V
S801	⚠ 5300046200	SW, PUSH 1-1 SDDLD1

SEL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200289000	SEL PCB ASSY [GE]
	*5210289000	SEL PCB [GE]
S802	⚠ 5332016300	VOLTAGE SELECTOR,FS907BB[GE]

LED PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200293500	LED PCB ASSY
	*5210293500	LED PCB
D701	5225025400	LED, SLH38 DC5F

HP PCB ASSY (CD-Z5000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200293330	HP PCB ASSY (CD-Z5000G)
	*5200293320	HP PCB ASSY (CD-Z5000B)
	*5210293301	HP PCB
J701	5330014900	JACK 3P, FJ332DAH-M (CD-Z5000G)
	5330014400	JACK 1P, FJ332NB-M (CD-Z5000B)

HP PCB ASSY (CD-P4000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200288600	HP PCB ASSY
	*5210288600	HP PCB
J701	5330014400	JACK 1P, FJ332NB-M

Parts marked with *require longer delivery time.

[J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE
[UK]:U.K. [A]:AUSTRALIA [GE]:GENERAL EXPORT

CD-Z5000/CD-P4000

TEAC®

ティアック株式会社

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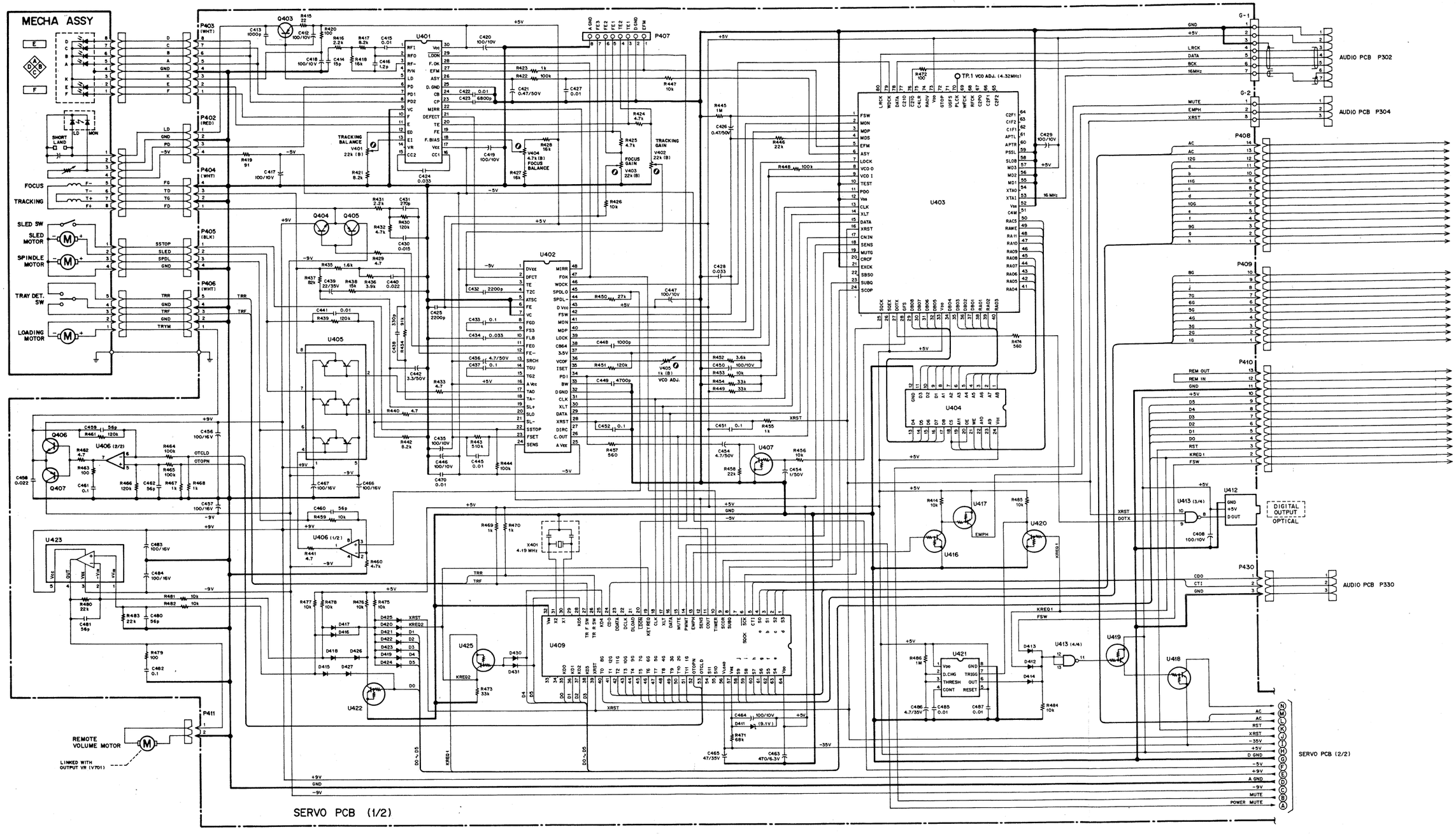
TEAC AUSTRALIA PTY., LTD.	106 Bay Street, Port Melbourne, Victoria 3207, Australia	Phone:(03)646-1733

PRINTED IN JAPAN 0291SK 0.7 M-0494A

TEAC SCHEMATIC DIAGRAM CD-Z5000 (1/2)



INSTRUCTIONS FOR SERVICE PERSONAL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

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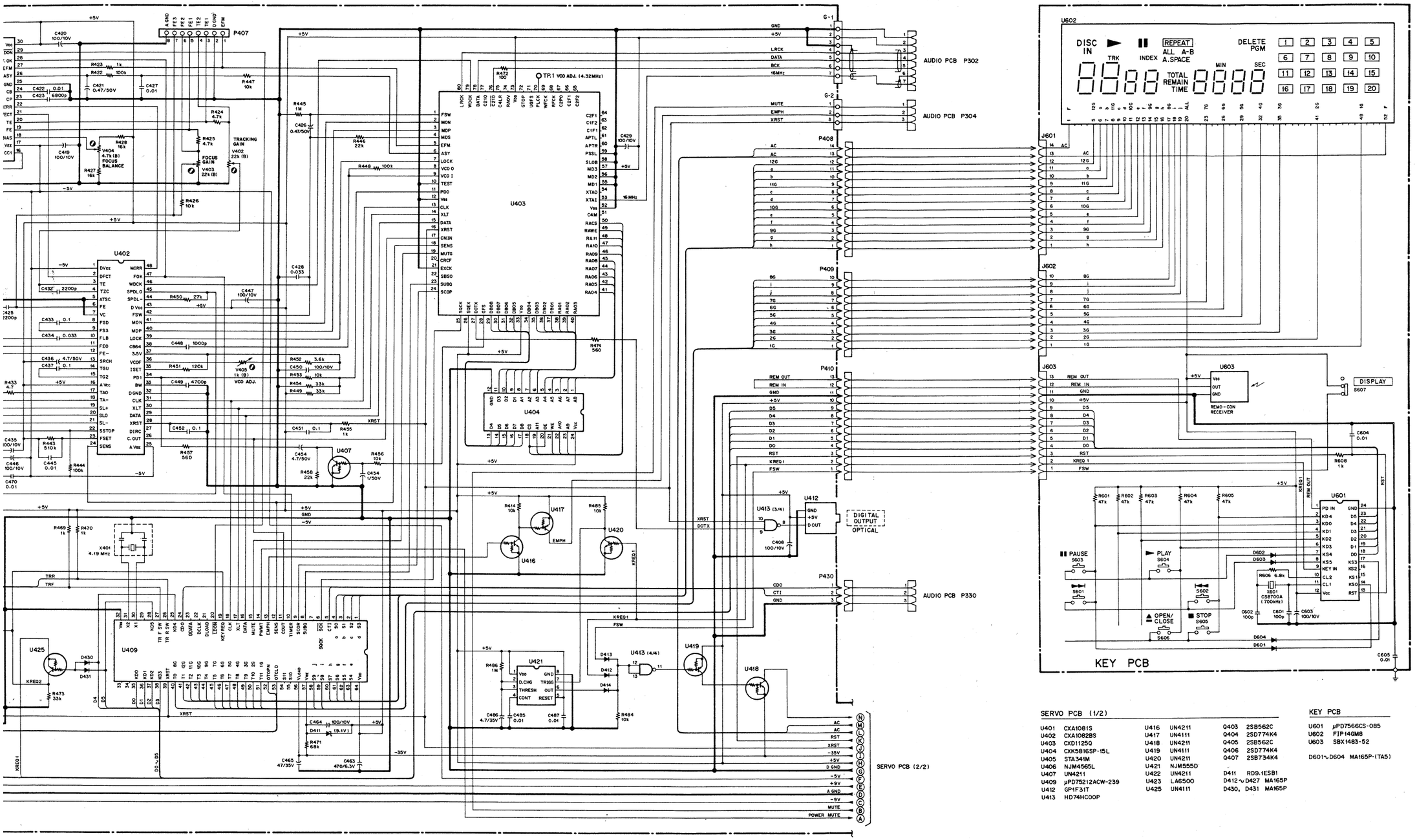

SERVO PCB (1/2)

U401	CXA1081S	U416	UN4211	Q403	2SB562C
U402	CXA1082BS	U417	UN4111	Q404	2SD774K4
U403	CXD1125Q	U418	UN4211	Q405	2SB562C
U404	CXK5816SP-15L	U419	UN4111	Q406	2SD774K4
U405	STA341M	U420	UN4211	Q407	2SB734K4
U406	NJM4565L	U421	NJM555D		
U407	UN4211	U422	UN4211	D411	RD9.1ESB1
U409	μPD75212ACW-239	U423	LA6500	D412～D427	MA165P
U412	GP1F31T	U425	UN4111	D430, D431	MA165P
U413	HD74HC00P				

KEY PCB

U601	μPD7566CS-085
U602	FIP14GM8
U603	SBX1483-52
D601～D604	MA165P-(TA5)

'ICE PERSONAL
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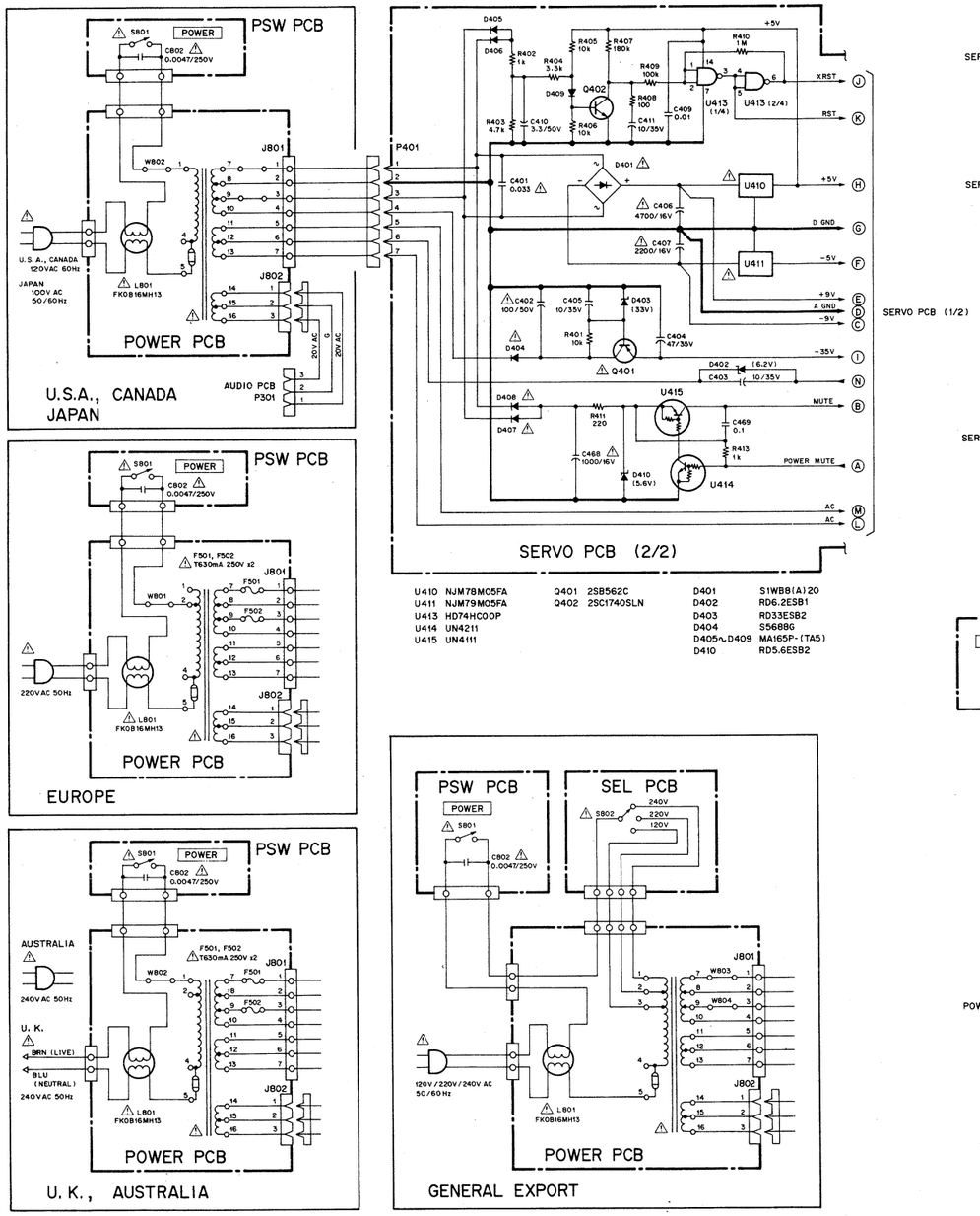
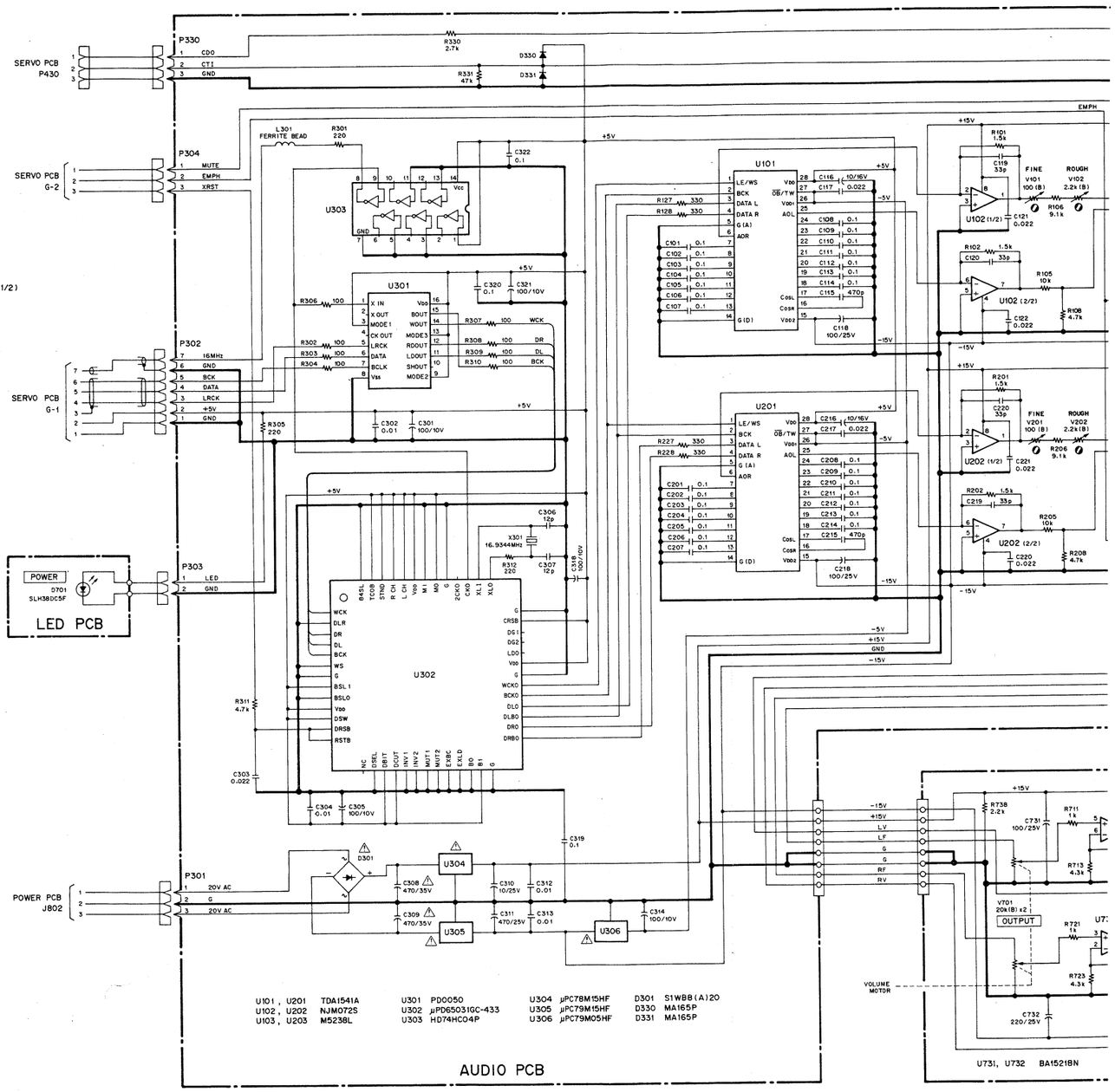
CD-Z5000 Compact Disc Player

1st Issue; February 1991





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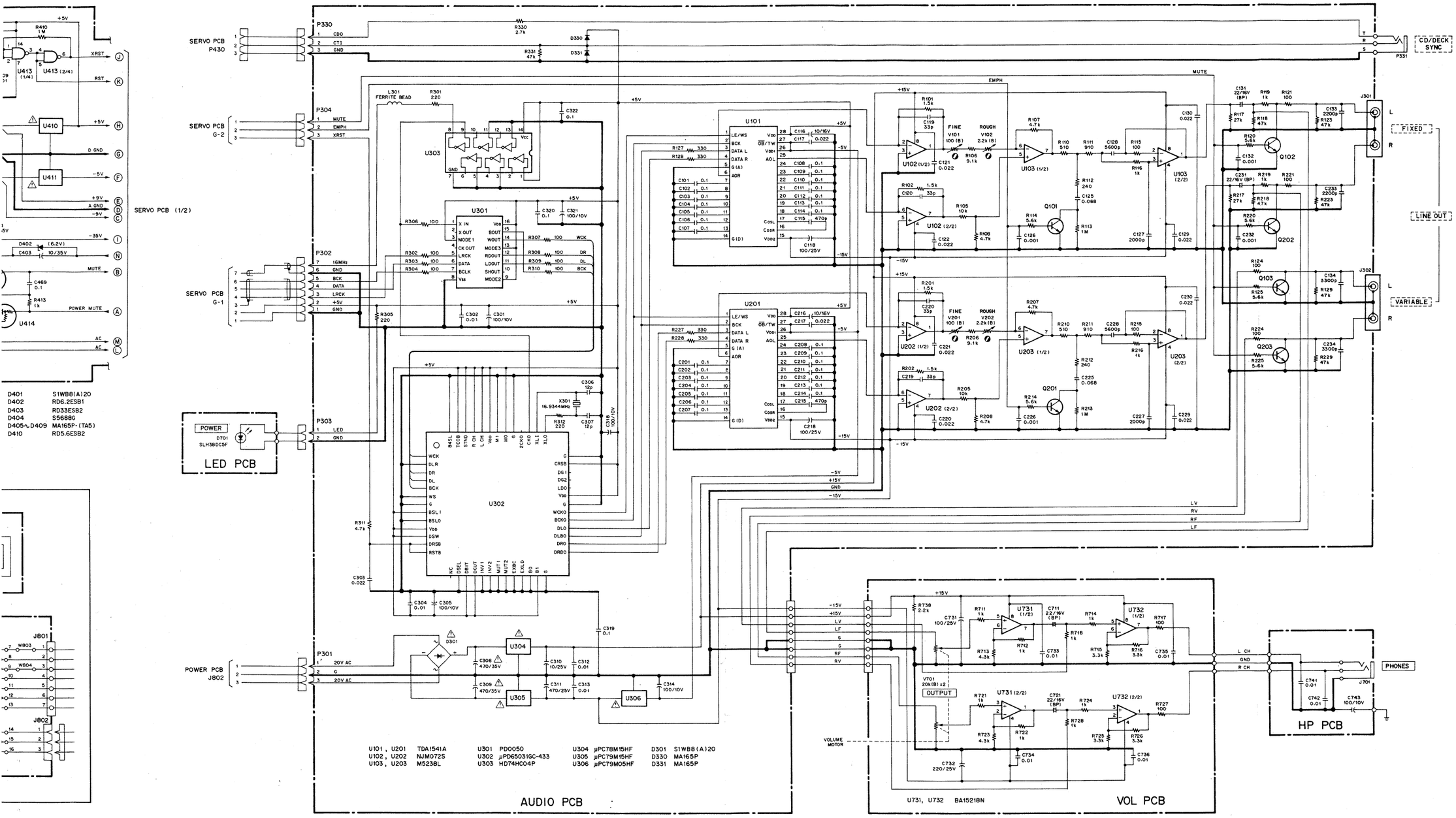

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TEAC SCHEMATIC DIAGRAM CD-P4000 (1/2)

MECHA ASSY

U401 CXA1081S
U402 CXA1082BS
U403 CXD1125Q
U404 CXK5816SP-15L
U405 STA341M
U406 NJM4565L
U407 UN4211
U409 μPD75212ACW-239
U412 GP1F31T
U413 HD74HC00P
U416 UN4211
U417 UN4111

Q403 2SB562C
Q404 2SD774K4
Q405 2SB562C
Q406 2SD774K4
Q407 2SB734K4

D411 RD9.1ESB1

SERVO PCB (1/2)

SERVO PCB (2/2)

AUDIO PCB P306

AUDIO PCB P305

AUDIO PCB P302

AUDIO PCB P304

DIGITAL OUTPUT OPTICAL

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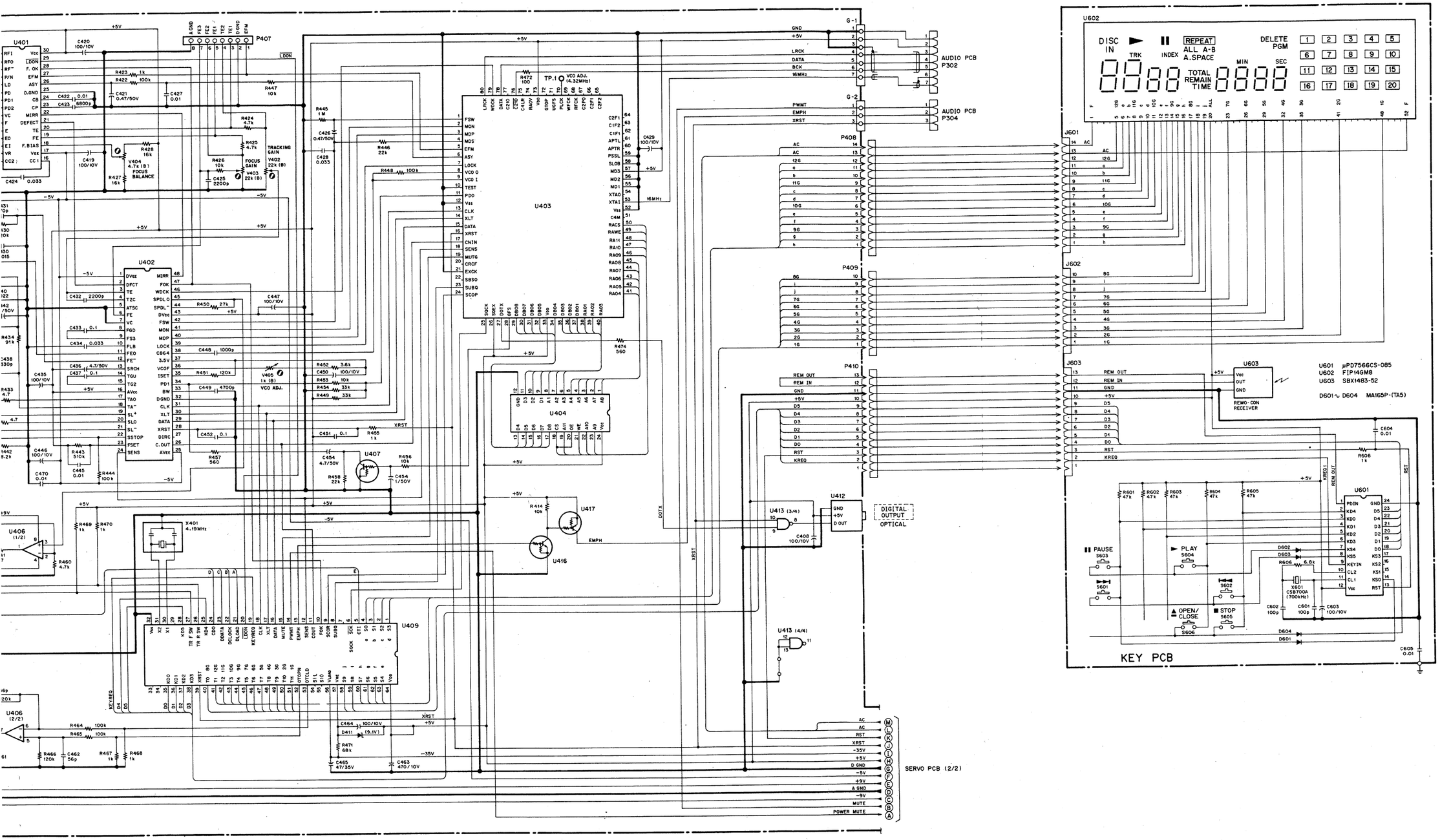

U601 μPD7566CS-085
U602 FIP14GM8
U603 SBX1483-52

D601∿D604 MA165P-(TA5)

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CD-P4000 Compact Disc Player

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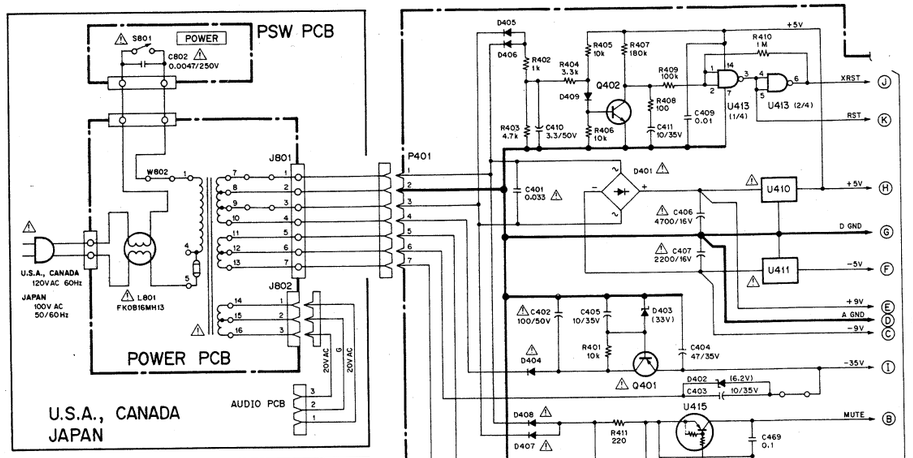
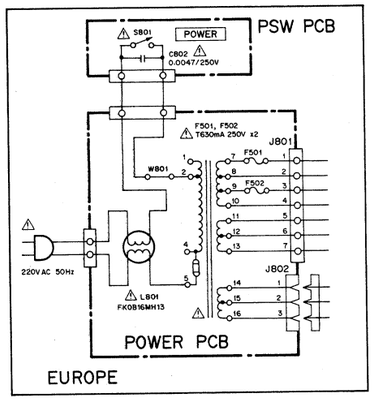
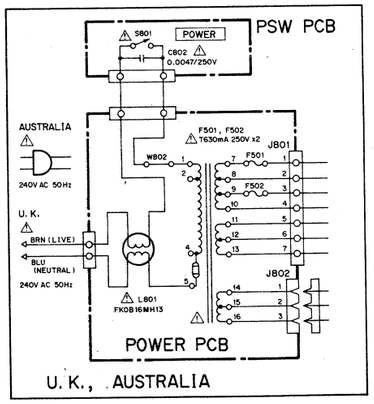


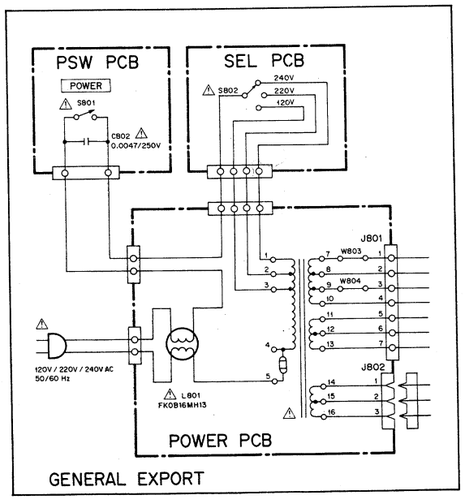
U410 NJM78M05FA
U411 NJM79M05FA
U413 HD74HC00P
U414 UN4211
U415 UN4111

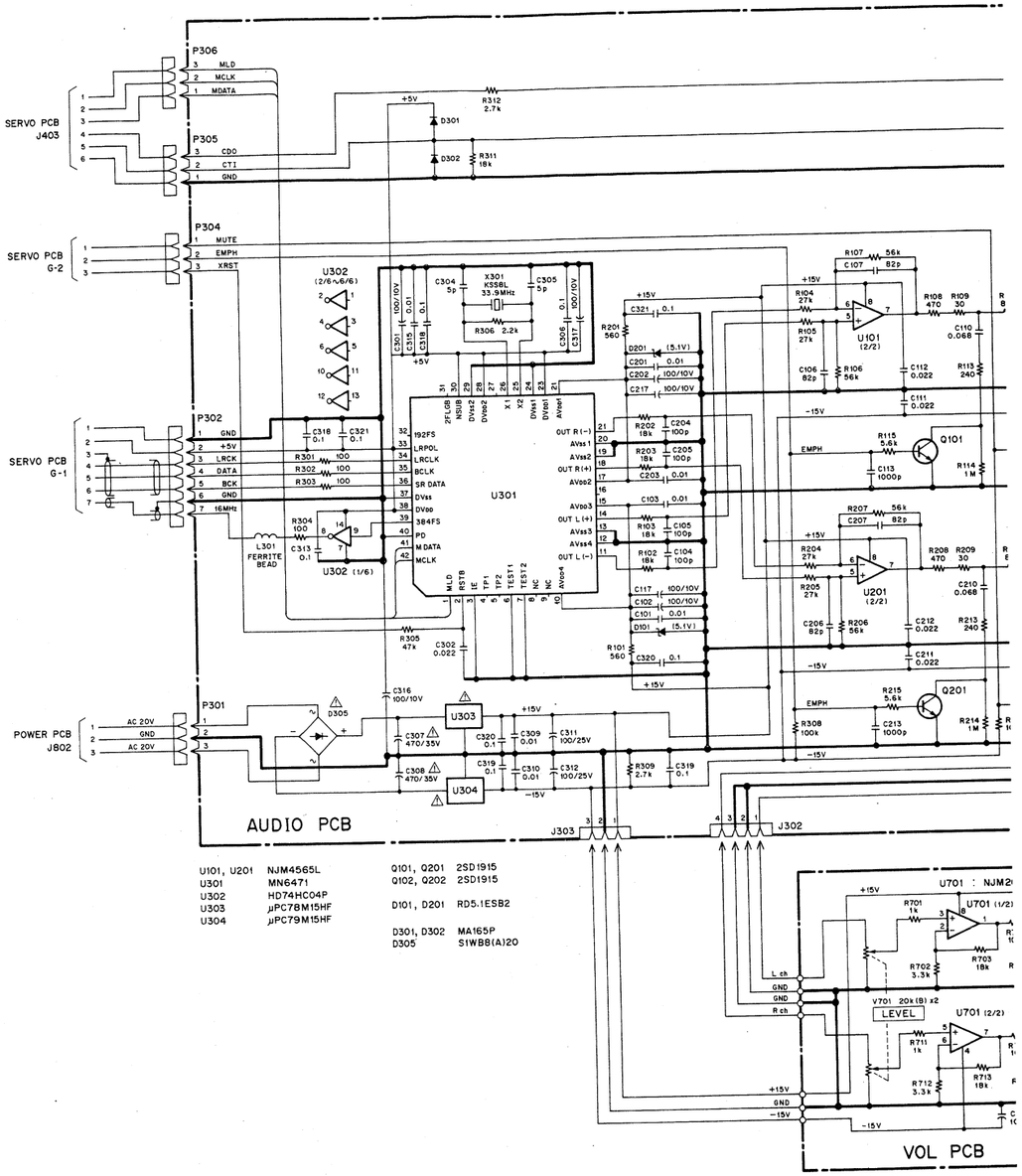
Q401 2SB562C
Q402 2SC1740SLN

D401 S1WB8(A)20
D402 RD6.2ESB1
D403 RD33ESB2
D404 S5688G
D405～D409 MA165P-(TA5)
D410 RD5.6ESB2









U101, U201 NJM4565L
U301 MN6471
U302 HD74HC04P
U303 μPC78M15HF
U304 μPC79M15HF

Q101, Q201 2SD1915
Q102, Q202 2SD1915

D101, D201 RD5.1ESB2

D301, D302 MA165P
D305 S1WB8(A)20

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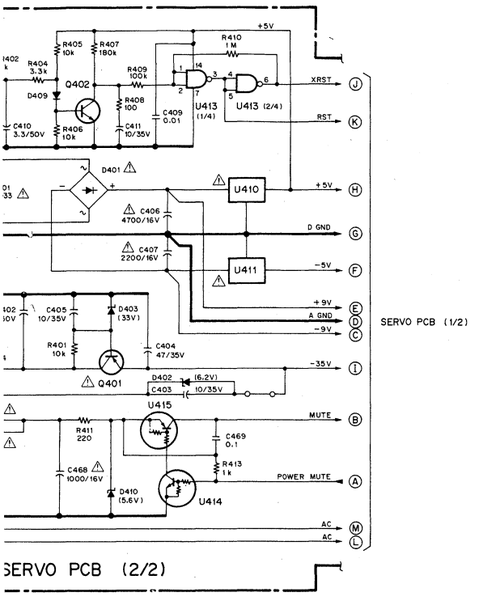

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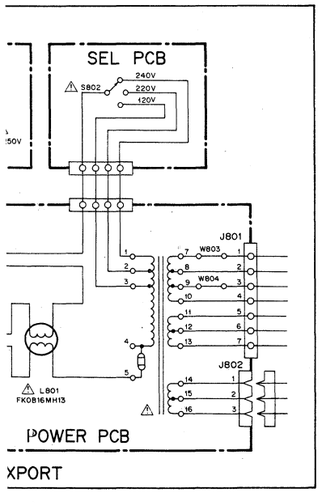

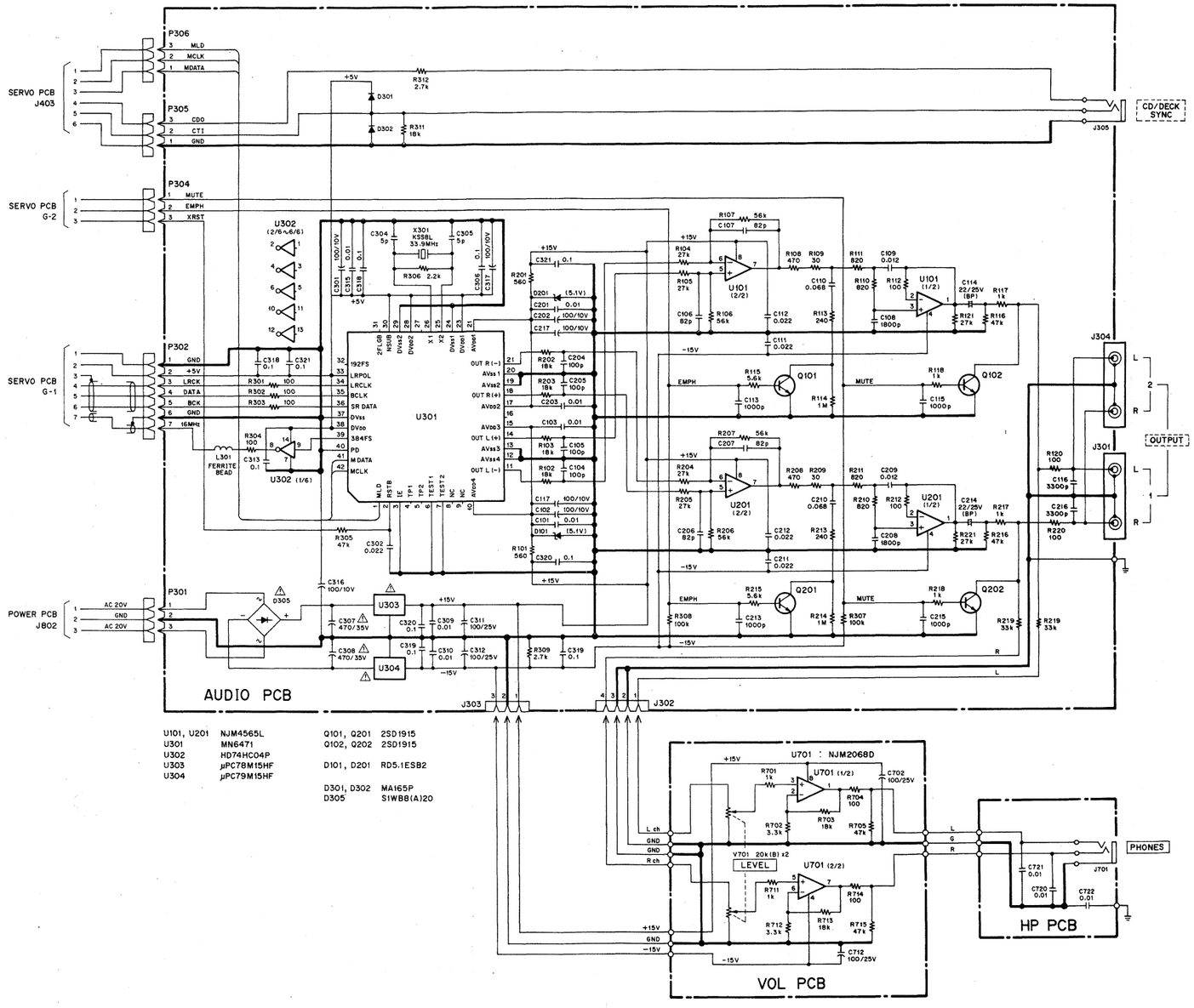

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